No. 192

W. Elliot Woodward's

NINETY-FIRST SALE.

Minerals, Ores and Crystals.

FRIDAY and SATURDAY, OCTOBER 29, 30, 1886.

CATALOGUE

OF

AMERICAN AND RUSSIAN

MINERALS,

AND

Articles of Household Adornment.

ALL TO BE SOLD BY AUCTION

BY Messrs. BANGS & CO.,

739 & 741 Broadway, New York City,

On Friday and Saturday, October 29 and 30, 1886.

The Minerals, &c., will be on exhibition at the Auction Room on the days of Sale, and from the Monday preceding, through the following days to the Sale. Orders for the Sale will be carefully executed by Mr. WM. NIVEN, the Auctioneers, and the Cataloguer, all of whom may be addressed, at any time, premises to the Sale, at 739 and 741 Broadway.

Catalogue by Wm. Elliot Woodward.

BOSTON:

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1886.

CATALOGUE.

MINERALS.

The following catalogue comprises collections A, B, C and D of the stock of the Jasperoid Wood and Mineral Co., sold by auction June 25, 1896, and purchased by me at that sale. They comprise the very finest specimens of the finest stock of minerals ever offered for sale in America, being mostly from the exhibit of Arizona Territory at the World's Fair in New Orleans, with a fine collection purchased at the same Fair from Mr. Woerffel, principal lapidary to St. Petersburg, and Commissioner from the Russian Government at that Fair, together with an assortment of minerals, mostly from Marquette Co., bought from the museum of Mr. Wetmore at Negaunee, Michigan. Only the briefest and most general descriptions are attempted, as an ordinary auction sale catalogue must wholly fail to give any idea of their brilliancy of color and beauty of form, and mineralogists even at a distance will find it well worth their while to view the specimens, as they will be on exhibition previous to the sale at the auction rooms of Messrs. Bangs & Co., 739, 741 Broadway, N. Y., to which view they are cordially invited.

Mr. William Niven, Assistant Commissioner for Arizona at the New Orleans Fair, and who is familiar with every specimen in the entire collection, will attend the sale and execute orders for customers, free of commission for purchasing, and will cheerfully correspond with intending buyers, and give them such advice concerning the examples as can only be given by a thoroughly competent mineralogist and scientist.

1 Malachite and Azurite. 5½ x 4. United Verde, A. T.
2 Azurite and Malachite. 4½ x 2½. Pima Co., A. T.
3 Calcite in small crystals. 4½ x 3½. Clifton, A. T.
4 Pyrite in quartz. 4 x 3½. Tevra mine, A. T.
5 Cuprite and Limonite. 5½ x 4½. Cochise, A. T.
6 Azurite. 3½ x 2. Clifton, A. T.

7 Vanadinite. Shows crystalline faces. *Rare.* 1¼ x 1¼. Pima Co., A. T.

8 Wulfenite crystals. *Rare.* 1¼ x 1.

9 Calcite on agatized wood. 9 x 4½. Diamond Cave, A. T.

10 Azurite. 3¼ x 3¼. Of singularly brilliant colors. Morenci group, A. T.

11 Calcite. 3 x 2½. Cochise Co., A. T.

12 Calcite and Sphalerite. 4½ x 3. Alston Moor, England.

13 Calcite with Pyrites. 2¼ x 2. Pennsylvania.

14 Malachite. 4 x 4. Cochise, A. T.

15 Cuprite and Malachite. 3½ x 3. Copper Queen Mine, A. T.

16 Azurite and Malachite. 3¾ x 4. Clifton, A. T.

17 Cuprite on Limonite. 4½ x 3½. Bisbee, A. T.

18 Galenite and Sphalerite. 3 x 3. England.

19 Fluorite and Galenite. 5 x 3. England.

20 Galenite and Sphalerite. 4 x 3. England.

21 Wulfenite and Vanadinite. 4 x 2½. Pima Co., A. T.

22 Silicate and Carbonate of Copper. 6 x 5. Silver Bell Mine, A. T.

23 Silicate and Carbonate of Copper. 5 x 3½. A. T.

24 Wulfenite. 3¾ x 3¼. Yuma, A. T.

25 Apatite. 4½ x 4½. Canada.

26 Malachite and Calcite. 4½ x 2½. Clifton, A. T.

27 Calcite on Epidote. 3 x 2½. Tyrol, Switzerland.

29 Ferruginous Quartz on agatized wood. 16 x 8. An immense group of handsome crystals; *extremely fine.* Chalcedony Park, A. T.

30 Jasperized wood, polished. 2¾ x 1½. Chalcedony Park, A. T.

31 Malachite. 2¾ x 2½. Santa Ritas, A. T.

32 Azurite. 3 x 2½. Clifton, A. T.

33 Cerussite. Beautiful specimens of a most rare mineral. 4 x 3. Flux Mine, A. T. In two pcs.

34 Wulfenite and Vanadinite. 3 x 2. Yuma, A. T.

35 Jasperized Wood; polished. 2½ x 2. Chalcedony Park, A. T.

36 Pyrolusite. 8½ x 5½. Stonewall Jackson Mine, A. T.

37 Talc; copper stained. 3 x 2½. Cochise, A. T.

38 Kaolin. 3½ x 2½. Clifton, A. T.

39 Copper Ore; nearly pure copper. 2¼ x 1½.

40 Stalagmite. 3 x 2. Ruxton Cave, A. T.

41 Azurite and Malachite. 3 x 2½. Bisbee, A. T.

42 Cuprite on Limonite. 3 x 2½. Copper Queen Mine, A. T.

43 Crystals of Malachite and Azurite; *very fine*. 7 x 6. Clifton, A. T.

44 Large group of great Crystals of Quartz. 11 x 11. Very fine and desirable. Arkansas.

45 Geode of Nail Head Spar; Calcite in Hematite. 8 x 5. Marquette Co., Lake Superior.

46 Azurite in fine Crystals. 4 x 2. Clifton, A. T.

47 Amethyst Crystals on Jasperized Wood. 4 x 4. Chalcedony Park, A. T.

48 Anthraphyllite. 3½ x 2. New York.

49 Malachite. 6 x 3½. Clifton, A. T.

50 Jasperized Wood; polished; nearly cubical. 1¾ x 1¾. Chalcedony Park, A. T.

51 Pill-shaped Magnesia coated with Calcite, on Hematite. 7 x 4. Marquette Co., Mich.

52 Tremolite in Dolomite. 3½ x 2½. Lee, Mass.

53 Malachite. 4½ x 4½. Santa Rita, A. T.

54 Cuprite and Limonite. 4½ x 5. *Fine*. Bisbee, A. T.

55 Calcite and Sphalerite; *very fine*. 4 x 3. Alston Moor, England.

56 Anglesite. 5¼ x 4½. Yavapai Co., A. T.

57 Galenite on Quartz. Shows elegant shade of light green. 4 x 2. Alpine Mound, A. T.

58 Cockscomb Spar, heavy Barytes. 4 x 3. Jackson Mine, L. S.

59 Geode of Calcite in Hematite. 5 x 3½. Milwaukee Mine.

60 Silver and Copper smelted and half-freed. By assay at the mine, shown to contain 8 oz. of silver. A splendid example. 10 x 10, and weighing 5 lbs. 14 oz. Hancock Furnace, Mich.

61 Native Copper in shape of a fan or fish spear; very fine. 7 x 5. A handsome specimen.

62 Manganese; kidney and grape form. Psilomelane. 5 x 4. McComber Mine, Mich.

63 Cerussite; massive. 3½ x 3½. Graham Co., A. T.

64 Chrysocolla. 6 x 3½. Cochise Co., A. T.

65 Jasperized Wood; polished. 4 x 2½. Chalcedony Park, A. T.
66 Manganese; kidney form and Psilomelane. 6 x 4. McComber Co., Mich.
67 Alabaster. 3 x 4. New Brunswick.
68 Malachite. 5½ x 3½. United Verde, A. T.
69 Fluorite Spar. 4¼ x 4½. Crittendon, Ky.
70 Azurite and Malachite. 4½ x 3½. United Verde, A. T.
71 Malachite and Limonite. 8 x 7. Silver Bell Dist., A. T.
72 Copper Pyrites. 3 x 2. A. T.
73 Azurite and Malachite. 6 x 5½. Longfellow Mine, A. T.
74 Fossil Coral; polished. 3 x 2. Iowa.
75 Fluorite, crystallized; amethyst color. 4½ x 3. England.
76 Apatite. 4 x 4. Canada.
77 Calcite. 4 x 4½. New Mexico.
78 White Corundum. 2 x 1½. North Carolina.
79 Calcite, Stalactitic. 2 pcs. Rincon Cave.
80 Azurite. 3 x 3. Clifton, A. T.
81 Velvety, seal brown, satin wood Limonite. 4 x 3. Marquette Co., Mich.
82 Crystallized Quartz; massive. 4 x 3. Hot Springs, Ark.
83 Gold-bearing Pyrites and Grey Silver. 4 x 2½. Freeland, Colorado.
84 Hematite Pisiform. 7 x 4. Lake Superior.
85 Travertine. 4 x 3. Mich.
86 Large Quartz Crystal; *very good.* 2¾ x 2. Hot Springs, Ark.
87 Satinwood Limonite. 4½ x 3. *Fine specimen.* Lake Superior.
88 Galenite. 4 x 3. Yavapai Co., A. T.
89 Malachite and Azurite. 3½ x 3. Maricopa Co., A. T.
90 Fluorite in amethystine crystals. 3½ x 2. England.
91 Geode, Limonite, Hematite, etc.; *fine example.* 7½ x 5. Marquette Co.
92 Cockscomb-Spar Barytes, Hematite, etc. 3 x 2½. Jackson Mine, Mich.
93 Calcite and Iron Pyrites. 2 x 2. *Fine.* Pennsylvania.
94 Chrysocolla and Azurite. 4 x 3. Graham Co., A. T.
95 Azurite and Malachite. 2½ x 2. Bisbee, A. T.
96 Moss Agates, uncut. 1½ x 1. Wyoming. 3 pcs.

97 Chalcopyrite. 4½ x 3. Yavapai Co., A. T.
98 Cuprite on Malachite. 4½ x 3. Bisbee, A. T.
99 Fibrous Malachite. 4 x 3. Longfellow Mine, A. T.
100 Grey Cassiterite; shows fine lustre. 2½ x 3. Peru.
101 Specular Hematite. 6 x 5. Cleveland Mine, Mich.
102 Columnar Limonite and Baryte. 4 x 3½. Jackson Mine, L. S.
103 Quartz Crystal; rhomboidal pseudomorph. 2 x 5½ Hot Springs, Ark.
104 Malachite and Azurite. 6½ x 2. Clifton, A. T.
105 Green Calcite. 3½ x 3. *Fine.* Pennsylvania
106 Galenite and Cerussite. 4½ x 4. Schuylkill Mine, A. T.
107 Chalcopyrite. 5 x 5. Pima Co., A. T.
108 Argentite. 5½ x 2½. Pima Co., A. T.
109 Pennaqua. 6 x 5. Pima Co., A. T.
110 Chrysocolla and fibrous Malachite. 5½ x 4. Clifton, A. T.
111 Galenite. 2 x 1½. Black Hills, Dakota.
112 Wavellite. 2½ x 1½. Arkansas.
113 Orthoclase. 2 x 2. Maine.
114 Malachite. 3 x 3. Bisbee, A. T.
115 Tetrahedrite and Bornite. 1 x 2. San Catalina Mts., A. T.
116 Cobalt. 3 x 2. Nevada.
117 Smoky Quartz Crystal. 2 x 1. Colorado.
118 Pikanite Crystal. 1½ x 1. Georgia.
119 Silver ore. 3 x 2½. Long Island Copper Mine, A. T.
120 Chrysocolla and Azurite. 2½ x 2. Clifton, A. T.
121 Selenite. 4 x 2½. New Brunswick.
122 Azurite Crystals. 3 x 2½. Longfellow Mine, A. T.
123 Actinolite and Radiated Asbestos. 5 x 4. Marquette Co., Mich.
124 Cuprite Crystals on Limonite. Bisbee, A. T.
125 Calcite, Garnet, and Malachite. 3 x 2. Bisbee, A. T.
126 Geode of Smoky Calcite in Hematite. 4½ x 3. Jackson Mine, Marquette Co., Mich.
127 Azurite. 4½ x 3½. Clifton, A. T.
128 Galenite. 5 x 4. Pima Co., A. T.
129 Actinolite, Asbestos and Magnetic Iron. 5 x 4. Lake Superior.

130 Kidney Manganese. 5½ x 3. Lake Superior.
131 Chrysocolla and Azurite. 3½ x 2½. Clifton, A. T.
132 Galenite and Native Silver. 2½ x 2½. Silver King Mine, A. T.
133 Tremolite in crystals. 2 x ½. Kingsbridge, N. Y.
134 Chrysocolla. 3 x 2. Longfellow Mine, A. T.
135 Black pearl satinwood Limonite. 4 x 3. *Very fine.* Marquette Co., Mich.
136 Muscovite. *Fine specimen.* 6 x 4. Connecticut.
137 Chrysocolla and Malachite. 3½ x 2½. Bisbee, A. T.
138 Actinolite, Asbestos and Magnetic Iron. 3 x 3. Republic Mine.
139 Calcite and Sphalerite. 2½ x 2. England.
140 Smoky Quartz, large Crystal. Rarely found so large and fine. 8 x 4. Colorado.
141 Heavy Spar with Hematite. 4½ x 3. Jackson Mine, Michigan.
142 Calcite coating Malachite. A beautiful specimen. 6 x 3. Cochise Co., A. T.
143 Large Quartz Crystal. 7 x 4½. Arkansas.
144 Geode of rounded Calcite or Yellow Ochre and Iron. 4 x 5. Humboldt Mine, Michigan.
145 Geode of Calcite sprinkled with Pyrites in Jasper. 6 x 3. Jackson Mine, Mich.
146 Malachite. 4 x 3½. Huachuca Mts., A. T.
147 Jasperized Wood, polished. 2½ x 2. Apache Co., A. T.
148 Fibrous Malachite. 2 x 1½. Bisbee, A. T.
149 Titanite, crystalized. 1½ x 1½. Georgia.
150 Pyrolusite. 2½ x 1½. Stonewall Mine, A. T.
151 Galenite and Sphalerite. 3½ x 2. England.
152 Azurite. 2½ x 2. Cochise Co., A. T.
153 Copper Pyrites. 3 x 2. Colorado.
154 Glossy Limonite, fibrous satin-wood, kidney ore. *Very fine.* 5 x 3½. Lake Superior.
155 Azurite. 3½ x 3. Santa Rita, A. T.
156 Chalcedony with Amethyst. 3½ x 2. Yellowstone Park.
157 Geode of drusy Calcite on Hematite. 4 x 4. Milwaukee Mine.
158 Azurite and Malachite. 3 x 3. Longfellow Mine, A. T.
159 Microline. Very fine; part polished. 2 x 2. Colorado.

160 Malachite and Limonite. 4½ x 4. Tucson Mine, A. T.
161 Green Calcite and Pyrites. 3 x 2. Pennsylvania.
162 Pyroxene and Feldspar. 2½ x 2. Catalina Mts., A. T.
163 Chalcopyrite and Green Calcite. 3 x 2½. Pennsylvania.
164 Steatite, polished. 2 x 2. Mexico.
165 Velvet pipe ore of Iron. 5 x 4. Jackson Mine, L. S.
166 Scapolite, crystalized. 1½ x 1½. Canada.
167 Chlorite. 3 x 2. Pima Co., A. T.
168 Azurite. 5½ x 2½. Clifton, A. T.
169 Chalcedony with crystals of Spar. 4 x 2½. *Very fine.* Yellowstone Park.
170 Cuprite and Limonite. 4½ x 2. Bisbee, A. T.
171 Chloride of Sodium, rock salt. 4½ x 3½. Mexico.
172 Calcite in fine crystals. Very superior specimen. 5 x 4. Alston Moor, England.
173 Malachite. *Extra fine.* 3½ x 2½. Cochise Co., A. T.
174 Chalcopyrite Crystals. 3 x 2. Pennsylvania.
175 Adesite and Lepidolite. 3 x 2. North Carolina.
176 Aquamarine in crystals. North Carolina. 4 pcs.
177 Cuprite on Malachite. 4 x 2. Bisbee, A. T.
178 Cuprite on Malachite. 5 x 3. Bisbee, A. T.
179 Cassiterite in crystals. Cornwall. 2 pcs.
180 Smoky Calcite on Hematite. 4½ x 4. Marquette Co., Michigan.
181 Idocrase with Calcite. 2½ x 2½. Sanford, Me.
182 Crystalized Copper. 4 x 3. Lake Superior.
183 Barytes, pipe ore, and Limonite. 3½ x 2½. Lake Superior.
184 Black pearl satinwood Limonite. 3 x 4. Jackson Mine, Michigan.
185 Chrysocolla. *Fine.* 5 x 5. Graham Co., A. T.
186 Chrysocolla and Malachite. 4 x 2½. Cochise Co., A. T.
187 Grey Cassiterite. 2½ x 2. Pennsylvania.
188 Vanadinite. 2½ x 2½. Florence Mine, A. T.
189 Chalcopyrite. 2½ x 2. Apache Co., A. T.
190 Native Silver. 4 x 2. Lone Star Mine, A. T.
191 Grape Manganese. 5 x 4. Michigan.
192 Malachite and Azurite. 5 x 3½. Morenci Group, A. T.
193 Pyrites on Calcite. 2½ x 2. Pennsylvania.
194 Anglesite. 3 x 3. Pima Co., A. T.

195 Chloride of Sodium. 3½ x 3½. Sonora, Mexico.
196 Petanque. 6 x 3½. Pima Co., A. T.
197 Chalcopyrite. 6 x 4. Yavapai Co., A. T.
198 Azurite. 3½ x 3. Yavapai Co., A. T.
199 Specular Iron Ore and Hematite. 4 x 4. Republic Mine, L. S.
200 Fluorite in crystals. 3 x 3. England.
201 Azurite and Chrysocolla. 3½ x 2½. Santa Ritas, A. T.
202 Pyrites. 3 x 1½. Pima Co., A. T.
203 Quartz crystals. 3½ x 2½. Hot Springs, Ark.
204 Azurite and Malachite: the Azurite *very fine*. 6 x 4. Clifton, A. T.
205 Actinolite, Asbestos and Magnetic Iron Ore. 3 x 3. Republic Mine, Mich.
206 Stalagmite. 5 x 5. Cochise Co., A. T.
207 Vanadinite. 4½ x 3. Florence Mine, A. T.
208 Malachite and Azurite. *Very fine*. 4 x 3. Clifton, A. T.
209 Geode of Smoky Spar. Ochre and Iron. 4 x 3. Mich.
210 Quartz Crystals. 6 x 4½. Hot Springs. Ark.
211 Fluorite in crystals. 3½ x 2½. Alston Moor, Eng.
212 Galenite on Quartz. 4 x 4. Tombstone, A. T.
213 Fibrous Malachite. *Fine*. 4 x 3. Clifton. A. T.
214 Pyrolusite in Limonite. 4 x 3. McComber Mine. Mich.
215 Calcite in crystals. *Fine group*. 5½ x 3. England.
216 Chrysocolla and Azurite. *Very fine*. 5 x 3½. Clifton, A. T.
217 Pipe ore of Limonite. 3 x 2 . Mich.
218 Chalcocite. 6 x 3½. Graham Co., A. T.
219 Calcite on Sphalarite. 3½ x 2½. England.
220 Chrysocolla and Pyrolusite. Silicate of Copper on Manganese. *Fine*. 2½ x 3½. Pima Co., A. T.
221 Azurite. 4 x 2½. Morenci Group. A. T.
222 Geocronite. *Scarce*. 2½ x 2. Pima Co., A. T.
223 Grape Manganese. 4 x 3. McComber Mine, Mich.
224 Lead Carbonate. *Fine*. 2 x 2. Grant Co., N. M.
225 Specular Hematite. *Fine*. 6 x 4. Cleveland Mine. L. S.
226 Azurite and Malachite. 4 x 3½. Clifton, A. T.

227 Chloride of Silver in quartz. 4 x 3. Sonora, Mex.
228 Azurite. *Remarkably fine.* 2½ x 2. Bisbee, A. T.
229 Azurite. *Fine.* In crystals. 5 x 4. Bisbee, A. T.
230 Calcite and native Copper in crystals. 4½ x 3½. Mich.
231 Idocrase. 5 x 2½. Sanford, Me.
232 Azurite and Chrysocolla. 2 x 2. Clifton, A. T.
233 Limonite, black pearl shot ore. 4½ x 3. Jackson, Mine, Mich.
234 Zincite, Calcite and Franklinite. 4 x 3½. Franklin, N. J.
235 Tetrahedrite and Bornite. 3 x 2. Pima Co., A. T.
236 Azurite in crystals. 5 x 3½. Longfellow Mine, A. T.
237 Specular Iron. 4 x 4. Mich.
238 Azurite and Malachite. 4 x 3. Santa Rita, A. T.
239 Radiated Feldspar. *Scarce.* 2 x 1. Pennsylvania.
240 Erubescite. 3 x 3. Tombstone, A. T.
241 Galenite in crystals. 2½ x 2½. Joplin, Mo.
242 Azurite. 4 x 3. Clifton, A. T.
243 Chloride of Silver ore. 4 x 3½. Grand Central Mine, A. T.
244 Goethite and Limonite. 3½ x 2½. Mich.
245 Chalcopyrites. 3½ x 2½. Montezuma Canyon, A. T.
246 Gold-bearing-Quartz Crystals. 3 x 2. Tevis district, A. T.
247 Grape Manganese. 3½ x 2. Mich.
248 Valentinite. 3½ x 2. Sonora, Mex.
249 Chrysocolla. 3½ x 3. Clifton, A. T.
250 Quartz Crystal. 2½ x 2. Iron Mountain, Mo.
251 Azurite and Malachite. 3 x 2½. Sonora, Mexico.
252 Chrysocolla and Azurite. 3 x 2. Pima Co., A. T.
253 Green Quartz, crystalline. 2½ x 2. Cochise Co., A. T.
254 Cobalt. 3 x 2½. Nevada.
255 Azurite and Malachite. 3½ x 2½. Dos Cabezas, A. T.
256 Azurite. 3 x 2½. Bisbee, A. T.
257 Hematite, Limonite and Magnetic Iron Ore. 4 x 3. Mich.
258 Azurite and Malachite. 3½ x 2½. Cochise Co., A. T.
259 Geode of Smoky Calcite in Hematite. 2 x 2½. Mich.
260 Fossil Coral. 2½ x 2. One face polished. Mich.

261 Malachite and Lead Carbonate. 3 x 2. Grant Co., N. M.
262 Limonite Velvety Pipe Ore. 4 x 3. Mich.
263 Azurite in crystals. 3½ x 2½. Graham Co., A. T.
264 Splendid group of Quartz Crystals. 10 x 8. Hot Springs, Ark.
265 Pyrolusite with curious indentations caused by contact with Iron ore. 3 x 2½. McComber Mine, Mich.
266 Malachite. 3½ x 3½. Longfellow Mine, A. T.
267 Cassiterite, black oxide of Tin. *Rare.* 1 x 1½. Levant Mine, Cornwall.
268 Brown Hematite. 4 x 2½. Mich.
269 Tremolite and Chalcopyrites. 2½ x 1½. Pima Co., A. T.
270 Pyrolusite, Manganese and Hematite. 3½ x 2. Mich.
271 Tetrahedrite. 2½ x 2. Pima Co., A. T.
272 Azurite and Chrysocolla. 2 x 2½. Santa Ritas, A. T.
273 Geode of Smoky Calcite on Hematite. 2 x 3. Mich.
274 Chrysocolla and fibrous Malachite. 2½ x 2. Longfellow Mine, A. T.
275 Brown Iron Ore. 4½ x 2. Lake Superior.
276 Malachite in crystal. 4 x 3. Longfellow Mine, A. T.
277 Azurite and Malachite. 4 x 3. Longfellow Mine, A. T.
278 Calcite in crystals. 3½ x 3. England.
279 Azurite and Malachite. 2½ x 2½. Bisbee, A. T.
280 Base Bullion of Antimony. 3 x 2½. Sonora, Mex.
282 Azurite and Calcite. 4 x 2½. Pima Co., A. T.
283 Zaratite. 2 x 2. Pennsylvania.
284 Green Apophylite. 4½ x 2. Pennsylvania.
285 Calcite. 3 x 2. Montezuma Cave, A. T.
286 Azurite and Malachite. *Fine.* 3 x 2½. Graham Co., A. T.
287 Calcite and Quartz. 4 x 2½. England.
288 Cuprite, Malachite, and Calcite. *Fine.* 3 x 3. Bisbee, A. T.
289 Azurite on Quartz. 4 x 4. Graham Co., A. T.
290 Fibrous Malachite. 3 x 2½. Graham Co., A. T.
291 Beryl. 4 x 2½. Pennsylvania.
292 Chalcotrichite. 2 x 1½. Mich.

293 Azurite and Malachite; the Azurite in remarkably fine crystals. 1½ x 1½. Graham Co., A. T.

294 Quartz Crystals and Gold-bearing Talc. 1½ x 3. Cochise Co., A. T.

295 Galenite and Quartz. 6 x 3. Yavapai Co., A. T.

296 Azurite. *Fine.* 4½ x 4. Clifton, A. T.

297 Chalcocite. *Fine.* 3½ x 2½. Tombstone, A. T.

298 Malachite. 3 x 3. Clifton, A. T.

299 Malachite and Azurite. 4 x 2. Santa Rita, Pima Co., A. T.

300 Chrysocolla and Azurite. 3 x 2½. Morenci Group, A. T.

301 Lead Carbonate. 3 x 2½. Flux Mine, A. T.

302 Cuprite and Malachite. *Very fine.* 4½ x 3½. Bisbee, A. T.

303 Azurite. 4 x 3. Santa Rita, A. T.

304 Azurite. 4 x 3½. Pima Co., A. T.

305 Azurite Crystals. *Fine; rare.* 2 x 1½. Clifton, A. T.

306 Fibrous Malachite. *Very fine.* 3½ x 2½. Longfellow Mine, A. T.

307 Fibrous Malachite. 3 x 3½. Longfellow Mine, A. T.

308 Azurite. *Very fine.* 3 x 2½. Clifton, A. T.

309 Galenite. 6 x 4. Yavapai Co., A. T.

310 Specular Iron Ore. 5 x 2. Michigan.

311 Malachite. *Very fine.* 4 x 3½. Cochise Co., A. T.

312 Azurite and Limonite. 6 x 4. Bisbee, A. T.

313 Selenite. *Fine.* 5 x 3½. New Brunswick.

314 Azurite and Malachite. *Very fine.* 5 x 4. Clifton, A. T.

315 Geode, Stilbite and Amethyst Quartz. 3½ x 3. Nova Scotia.

316 Muscovite and Feldspar. 5 x 3. Maine.

317 Malachite. 4 x 2½. Clifton, A. T.

318 Chalcedony. A curious formation. 3 x 2. San Carlos, A. T.

319 Siliceous formation. 5½ x 3½. A. T.

320 Specular magnetic Iron ore and black Hematite. 5 x 4. Michigan.

321 Chrysocolla and Azurite. *Very fine.* 4 x 3. Longfellow Mine, A. T.

322 Wulfenite. 2½ x 2. Florence Mine, A. T.

323 Native Copper. 3 x 2½. Yavapai Co., A. T.
324 Crystal of Smoky Quartz. 5 x 2. Colorado.
325 Fibrous Malachite with Copper ore. 3 x 2½. Yavapai Co., A. T.
326 Calcite and native Copper. 5½ x 4. Michigan.
327 Tremolite. *Fine.* 5 x 3½. King's Bridge, N. Y.
328 Azurite Crystals. *Very fine.* 4 x 3. Longfellow Mine. A. T.
329 Assay buttons of metallic Silver; weight 130 grains. In a vessel as used in assay offices. A. T.
330 Malachite with crystals of Azurite. *Fine.* 5 x 3. Clifton, A. T.
331 Specular magnetic Iron ore. 3½ x 3½. Michigan.
332 Distorted Shell, picked up at the home of Washington Irving.
333 Chrysocolla and Malachite. 3 x 2. Clifton, A. T.
334 Malachite and Azurite. 3 x 2. Clifton, A. T.
335 Geode. Calcite crystals. 3½ x 3. St. Louis, Mo.
336 Azurite and Calcite. 3½ x 3. San Catalina Mts, A. T.
337 Malachite and Azurite. 3½ x 3. Clifton, A. T.
338 Sulphur. 3½ x 3. Tombstone, A. T.
339 Azurite. 3 x 2½. Graham Co., A. T.
340 Ulexite, Buranotrocalcite. 2 x 2. *Rare.* California.
341 Malachite and Azurite. 3 x 2½. Clifton, A. T.
342 Cuprite on Limonite. *Very fine.* 4½ x 4. Bisbee, A. T.
343 Native Sulphur. 3 x 2. Tombstone, A. T.
344 Azurite. 4 x 4. Graham Co., A. T.
345 Calcite. 4½ x 3. Alston Moor, England.
346 Cuprite, Malachite, Limonite and Azurite. *Fine.* 3 x 2½. Bisbee, A. T.
347 Cuprite on pea-green Talc. 4 x 2½. Clifton, A. T.
348 Cuprite and Limonite. 4 x 3½. Bisbee, A. T.
349 Azurite. *Fine.* 3½ x 2½. Graham Co., A. T.
350 Native Sulphur. 3 x 4. Tombstone, A. T.
351 Calcite and Malachite. 5 x 4. Bisbee, A. T.
352 Calcite crystals. 4 x 2½. Huachuca Mt., A. T.
353 Malachite and Azurite. 3½ x 3. Clifton, A. T.
354 Natrolite. 3½ x 2. New Jersey.
355 Azurite and Limonite. 3 x 2½. Clifton, A. T.
356 Azurite crystals. 4 x 2½. Pima Co., A. T.

357 Malachite and Azurite. 4 x 2½. Pima Co., A. T.
358 Cerussite. *Very fine and rare.* 2½ x 2½. Flux Mine, A. T.
359 Specss Cobalt. 3 x 2½. Benson, A. T.
360 Fluorite coated with Siderite. 3 x 2½. Alston Moor, England.
361 Calcite in crystals. 4 x 2. Rincon Mountain, A. T.
362 Cuprite and Malachite. 4 x 3½. Bisbee, A. T. 2 pcs.
363 Group of Quartz Crystals. 2 x 4. Hot Springs, Ark.
364 Wulfenite; bit, several pieces. Yuma, A. T.
365 Cuprite and Limonite. 4 x 3. Bisbee, A. T.
366 Fibrous Malachite. 4 x 2½. *Very fine.* Clifton, A. T.
367 Azurite in crystals. 3½ x 3. Clifton, A. T.
368 Azurite and Malachite. 3 x 2. Clifton, A. T.
369 Fibrous Cuprite. 3 x 2. A. T.
370 Wulfenite. 3 x 2. Yuma, A. T.
371 Cuprite on Malachite, with Azurite. 5 x 4. Cochise Co., A. T.
372 Azurite and Malachite Crystals. 3½ x 3. Longfellow Mine, A. T.
373 Opalized Wood. *Very fine.* 5 x 4. California.
374 Hornblende. 4½ x 2½. A. T.
375 Cerussite. 5½ x 4. *Fine and rare.* Flux Mine, A. T.
376 Jasperized Wood, (polished). 2 handsome specimens. Chalcedony Park, A. T.
377 Large Crystal of Smoky Quartz. *Fine.* 9½ x 2. Colo.
378 Azurite and Malachite on Quartz. 3 x 2. Pima Co., A. T.
379 Wavellite. 4 x 3½. Arkansas.
380 Azurite. 2½ x 1. San Pedro, A. T.
381 Lead Carbonate. 4 x 3. Victoria Mine, N. M.
382 Vanadinite and Wulfenite. 4 x 3. Florence Mine, A. T.
383 Jasperized Wood, (polished), showing bark. 3 x 2. Apache Co., A. T.
384 Azurite in Crystals. 2 x 1½. Clifton Mine, A. T.
385 Pumice. 6 x 3. Black Rock, A. T.
386 Galenite. *Fine.* 2 x 1½. Iowa.
387 Azurite and Malachite. 2½ x 2½. Clifton, A. T.
388 Calcite and Malachite. *Fine.* 6½ x 4. Bisbee, A. T.

389 Azurite and Malachite. 2½ x 2. Pima Co., A. T.

390 Azurite and Malachite. 8 x 9. Cochise Co., A. T.

391 Jasperized Wood, (polished). *Very fine.* 4 x 3. Chalcedony Park, A. T.

392 Native Copper. 2 x 2. Clifton, A. T.

393 Black Calcite. 3 x 4. Pima Co., A. T.

394 Quartz Crystals in group. 5 x 4. Mojave Co., A. T.

395 Galenite. 5½ x 3½. Kingman, A. T.

396 Chrysocolla and Azurite. 3½ x 2. Morenci Group, Clifton, A. T.

397 Galenite and Calcite. 2½ x 2. Tombstone, A. T.

398 Malachite. 4 x 3. Clifton, A. T.

399 Green Calcite. *Fine.* 1 x 2. Pennsylvania.

400 Malachite and Azurite. 2 x 3. Clifton, A. T.

401 Selenite. 5 x 4½. *Fine.* Tombstone, A. T.

402 A magnificent group of Malachite and Crystals of Azurite, 13 inches long, 9 inches wide, and 6 inches high. Clifton Mine, A. T. is the most celebrated locality known for this beautiful mineral, Azurite. This specimen is covered with brilliant blue crystalline masses of large size, and probably no finer example is known for both size and beauty. It is from the stock of the Jasperized Wood Co. The price at which it was held was $50.

403 Chalcopyrite. 9 x 7½. Eureka Mine, A. T.

404 Chrysocolla and Malachite. 3 x 2. Clifton Mine, A. T.

405 Fibrous Malachite and Copper Ore. 3½ x 4½. Clifton, A. T.

406 Apatite. *Fine Crystal.* 2 x ½. Canada.

407 Chalcopyrite. 3½ x 2. Tombstone, A. T.

408 Malachite. 4 x 3. Bisbee, A. T.

409 Kammelsbergite. 2½ x 2. Schnaeberg Lake.

410 Chrysocolla. 3 x 2. Longfellow Mine, A. T.

411 Chrysocolla and Azurite. 2½ x 2. Clifton, A. T.

412 Silver Assay buttons from Arizona in a small pottery vessel, like No. 329.

413 Crystal of Idocrase. ¾ x ⅜. *Fine.* Sandford, Me.

414 Galenite. 4 x 4. Mojave Co., A. T.

415 Cuprite and Malachite on Green Talc. 2½ x 2. Clifton, A. T.

416 Malachite and Azurite. 3½ x 2. Graham Co., A. T.
417 Malachite and Azurite. 3 x 2. Clifton, A. T.
418 Azurite and Malachite. 5 x 4. Longfellow Mine, A. T.
419 Chrysocolla and Azurite. 2½ x 2½. Clifton, A. T.
420 Asbestos in fine silky fibres. 2½ x 2. Colorado.
421 Chalcopyrite. 3 x 2½. Jerome, A. T.
422 Malachite and Azurite. 4 x 3. Hoarfrost, A. T.
423 Obsidian. 3½ x 2½. Yavapai Co., A. T.
424 Azurite. 7½ x 4½. Cocore.
425 Azurite Crystals. 2½ x 1½. Graham Co., A. T.
426 Chrysocolla and Azurite. 2 x 1½. Huachuca Mts., A. T.
427 Azurite. 3½ x 2½. Longfellow Mine, A. T.
428 Chloride of Silver Ore. 3½ x 3. Tip Top Mine, A. T.
429 Alabaster. *Very fine.* 7 x 5. Canada.
430 Azurite. 2½ x 1½. Huachuca Mts., A. T.
431 Chalcopyrite. 5 x 4. Montezuma Canyon, A. T.
432 Azurite. 5 x 3½. Graham Co. A. T.
433 Nickel ore. 2½ x 2. Nevada.
434 Galenite and Azurite. 2 x 2½. Pima Co., A. T.
435 Azurite on Quartz. 5 x 3½. San Catalina Mts., A. T.
436 Quartz Crystals in group. 5 x 3. Hot Springs, Ark.
437 Azurite on Chrysocolla. 3 x 3½. Graham Co., A. T.
438 Chrysocolla and Azurite. 4 x 3. Clifton, A. T.
439 Wulfenite and Chloride of Silver. 4 x 4. Total Wreck Mine, A. T.
440 Azurite and Malachite. 3½ x 2½. Santa Rita, A. T.
441 Zincite and Franklinite. 6 x 3. New Jersey.
442 Azurite. 4 x 4. Santa Rita, A. T.
443 Azurite. 3½ x 2. Clifton, A. T.
444 Chalcopyrite. 3 x 3. Tombstone, A. T.
445 Cobalt. 3½ x 2½. Patagonia Mts., A. T.
446 Azurite. 3 x 2. Clifton, A. T.
447 Azurite. 4½ x 4½. Peabody Mine, A. T.
448 Erubescite and Malachite. *Fine.* 3½ x 3. Cochise Co., A. T.
449 Native Copper on Calcite. 3½ x 3. Mich.
469 Chloride Silver. 4½ x 4. Patagonia Mts., A. T.

451 Malachite. Azurite and Calcite. 3½ x 3. Clifton, A. T.
452 Azurite. 4 x 3. Emerald Mine, A. T.
453 Bornite. 3 x 2½. McCann Mine, A. T.
454 Gold-bearing Quartz. 6 x 4. Tevis Mine, A. T.
455 Azurite. 2 x 1. Clifton, A. T.
456 Azurite and Malachite. 5½ x 4. Clifton, A. T.
457 Chalcopyrite. 5 x 4. Tevis District, A. T.
458 Stibnite. 3 x 2½. Hope Mine, A. T.
459 Hematite. 3½ x 2½. Jules Canon, A. T.
460 Azurite and Malachite. 3 x 3. Bisbee, A. T.
461 Horn Silver. 3½ x 3. Peck Mine, A. T.
462 Fibrous Malachite. 4½ x 2½. Clifton, A. T.
463 Cerussite. 6 x 5. Flux Mine, A. T. A magnificent specimen of great rarity.
464 Malachite and Chrysocolla. 5½ x 4. Pima Co., A. T.
465 Azurite and Malachite. 3 x 3. Clifton, A. T.
466 Chalcocite. 4 x 3. Tombstone, A. T.
467 Cuprite and Malachite. 6 x 4. Bisbee, A. T.
468 Jasperized Wood, (polished), 3 x 2. Chalcedony Park, A. T.
469 Chalcopyrite. 3 x 2½. Pima Co., A. T.
470 Fibrous Malachite. 4 x 2. Morenci Group, A. T.
471 Lead Base Bullion. 4½ x 1½. Benson, A. T.
472 Chalcocite. 3½ x 2. Pima Co., A. T.
473 Azurite Crystals. 2½ x 2. Copper Queen Mine, A. T.
474 Chalcopyrite. 3½ x 3. Copper World Mine, A. T.
475 Jasperized Wood, (polished). *Very fine.* 5 x 2. Chalcedony Park, A. T.
476 Chrysocolla. 3 x 2. Pima Co., A. T.
477 Malachite and Azurite. 2½ x 2. Santa Ritas, A. T.
478 Micaceous Iron. 4 x 3½. Pima Co., A. T.
479 Chalcedony. 3 x 2. Yellowstone Park.
480 Azurite. *Very fine.* 3 x 2½. Clifton, A. T.
481 Orthoclase. 2½ x 3. Pennsylvania.
482 Pyrites. 2½ x 2. Colorado.
483 Chalcopyrites. 3½ x 2. Copper World Mine, A. T.
484 Azurite and Malachite. 2 x 2. Clifton, A. T.
485 Chloride Silver Ore. 6 x 5. Empire Mine, A. T.

486 Malachite Crystals. 2½ x 2. Longfellow Mine, A. T.
487 Tremolite. *Fine.* 4 x 2½. Maine.
488 Siderite. 3 x 1½. Connecticut.
489 Group of Quartz Crystals. 12 x 18. Hot Springs, Ark. A group of almost unequaled beauty. From the stock of the Jasperized Wood Co., and cost $50.
490 Azurite. 3 x 2½. Clifton, A. T.
491 Azurite and Malachite. 3 x 1½. Clifton, A. T.
492 Idocrase crystalized. 4 x 2. Sandford, Me.
493 Azurite and Chrysocolla. Fine, large example. 6 x 4. Clifton, A. T.
494 Pyrolusite. 4 x 3. Stonewall Mine, A. T.
495 Wulfenite. 3 x 2. Florence Mine, A. T.
496 Chrysocolla. 3 x 2. Graham Co., A. T.
497 Azurite and Chrysocolla. 4 x 2½. Longfellow Mine, A. T.
498 Chloride of Silver Ore. 5½ x 4. Toad Wreck Mine, A. T.
499 Phosphate of Lime. 4 x 4. South Carolina.
500 Jasperized Wood showing bark; cut and polished. *Very fine.* 8 x 5. Chalcedony Park, A. T.
501 Azurite and Malachite. Extra large size. 9 x 7. Copper Queen Mine, A. T.
502 Pyrites, Galenite and Quartz. 3½ x 3. Tombstone, A. T.
503 Azurite. 2½ x 2. Longfellow Mine, A. T.
504 Malachite Crystals. 3½ x 3. Longfellow Mine, A. T.
505 Alabaster. 3 x 2. Pima Co., A. T.
506 Galenite. 7 x 5½. Bell Mine, A. T.
507 Pyrite. 2 x 2. Catalina Mts., A. T.
508 Malachite Crystals. 3 x 2. Pima Co., A. T.
509 Chloride of Silver. 6 x 4. Greaterville, A. T.
510 Orthoclase. 2 x 2. Maine.
511 Galenite and Native Silver. 3 x 2. Silver King Mine, A. T.
512 Cuprite and Limonite. 2½ x 3. Bisbee, A. T.
513 Chrysocolla and Azurite. 4 x 4. *Very fine.* Clifton, A. T.
514 Quartz Crystals in group. 4 x 3. Graham Co., A. T.
515 Chrysocolla, Malachite and Copper Ore. 2½ x 2. Globe, A. T.

516 Antimonial Bullion. 4 x 3. Sonora, Mex.
517 Anglesite. 4½ x 4. Pima Co., A. T.
518 Zincite and Franklinite. 6 x 4½. New Jersey.
519 Malachite and Chrysocolla. *Fine.* 3½ x 3. Clifton, A. T.
520 Quartz Crystals on Agatized Wood. 3 x 3. Chalcedony Park, A. T.
521 Geode lined with Crystals. 4½ x 3. Cochise Co., A. T.
522 Malachite. *Fine.* 3½ x 2. Cochise, A. T.
523 Chalcopyrite. 3½ x 2½. Pima Co., A. T.
524 Chrysocolla. 2½ x 2. Graham Co., A. T.
525 Silicified Wood, (polished), 3 x 2½. Apache Co., A. T.
526 Apatite in large Crystal. 1½ x 1. Renfrew, Canada.
527 Wavellite. *Rare.* 2 x 2. Arkansas.
528 Lead Carbonate. 3 x 2½. Sonora, Mexico.
529 Foliated Gold-bearing Talc. *Fine.* 7 x 6. Dos Cabezas, A. T.
530 Calcite and Pyrolusite. 6 x 4. Tombstone, A. T.
531 Graphite and Spar. 2½ x 2. Canada.
532 Malachite and Azurite. 3½ x 3. Clifton, A. T.
533 Galenite. 5 x 3½. Hackberry Mine, A. T.
534 Fluorite (polished). *Very fine.* 2½ x 2. England.
535 Azurite and Malachite. 5 x 4. Santa Ritas, A. T.
536 Chalcopyrite. 6½ x 5. Copper World Mine, A. T.
537 Native Copper and Cuprite. 3½ x 2. Clifton, A. T.
538 Azurite. 2½ x 2. Ajax Mine, A. T.
539 Orthoclase. 3 x 2½. Maine.
540 Galenite and Native Silver. 2 x 2. Silver King Mine, A. T.
541 Chalcopyrite Crystals. 1½ x 1. Pennsylvania.
542 Malachite. 2½ x 2. Bisbee, A. T.
543 Radiated Feldspar. 2 x ½. Pennsylvania.
544 Gold-bearing Quartz. 4 x 3½. Dos Cabezas, A. T.
545 Pyrite. 3 x 2. Maryland.
546 Malachite. *Fine.* 2½ x 2. Clifton, A. T.
547 Fluorite. 3 x 2. Yuma Co., A. T.
548 Valentinite. 2 x 2. Sonora, Mex.
549 Malachite and Azurite Crystals. *Very fine.* 3 x 2. Clifton, A. T.
550 Cobalt. 1½ x 1. Nevada.

551 Azurite. 3½ x 2½. Clifton, A. T.
552 Crystal of Smoky Quartz. *Fine.* 6½ x 4. Pike's Peak, Col.
553 Stalactite, (alabaster). 28 in. long, 7 at base. Rincon Mts., A. T.
554 Fossil Coral. Finely polished on one side and edge. 4 x 2. Iowa.
555 Amethyst Crystals on Agatized Wood. 5 x 4. Corsica. A. T.
556 Azurite and Chrysocolla. *Fine and of fine colors.* 2½ x 2. Clifton, A. T.
557 Calcite. 3 x 2. Sonora, Mex.
558 Green Calcite and Pyrite. Crystalline and very fine. 3 x 3. Pennsylvania.
559 Azurite. 2 x 1½. Sonora, Mex.
560 Anthrophyllite. 2½ x 2. New York.
561 Cassiterite. 3 x 2. Cornwall, Eng.
562 Azurite. 3 x 2. Clifton, A. T.
563 Obsidian. 2½ x 1½. San Xavier, A. T.
564 Aquamarine crystallized. *Fine.* North Carolina. 2 pcs.
565 Stalactite. 3 x 1½. Luck's Cave, A. T.
566 Azurite. 5 x 2½. Clifton, A. T.
567 Chalcopyrite. 6 x 5½. Pima Co., A. T.
568 Chlorite. 3 x 2. San Carlos, A. T.
569 Malachite and Azurite. Extra fine and large. 9 x 8. Clifton, A. T.
570 Calcite. 6 x 6. *Fine.*
571 Amethyst Crystals on Agatized Wood. A splendid specimen. 6 x 6½. Chalcedony Park, A. T.
572 Copper and Iron Pyrites. 3 x 3. Oro Blanco, A. T.
573 Agatized Wood; rhomboidal; cut and two sides polished. 2 x 2. Apache Co., A. T.
574 Oxide of Antimony. 2 x 2. Sonora, Mex.
575 Calcite, etc. 6½ x 4. Rincon Mts., A. T.
576 Azurite. 3½ x 2½. Longfellow Mine, A. T.
577 Alabaster. 6½ x 3. Canada.
578 Azurite and Malachite. 5½ x 3. Bisbee, A. T.
579 Stalagmite. 6½ x 3½. *Very fine.* Diamond Cave, A. T.
580 Fowlerite, etc. *Very fine.* 4½ x 2½. New Jersey.

581 Cassinite. *Very fine.* 4 x 1½. Pennsylvania.

582 Agatized Wood (polished). Enclosed geode filled with crystals. 3 x 1½. Apache Co., A. T.

583 Tremolite and Chalcopyrite. 3½ x 2. San Catalina, A. T.

584 Azurite and Malachite. 4½ x 4. Bell Mine, Santa Ritas, A. T.

585 Tetrahedrite and Bornite. 3½ x 3. Sonora, Mex.

586 Galenite and Pyrite in Quartz. 3 x 3. Pima Co., A. T.

587 Titanite crystallized. 1 x ¾. Georgia.

588 Turquoise. New Mexico. 2 pcs

589 Anglesite. 2½ x 1½. Gila Co., A. T.

590 Fibrous Malachite and Lead Carbonate. 2½ x 2. Victoria Mine, N. M.

591 Azurite. 3 x 3. Longfellow Mine, A. T.

592 Crystalized Epidote. 1¼. Switzerland.

593 Crystals of Amethyst on Jasperized Wood. The exterior shows plainly a portion of the bark; the wood itself is of beautiful variegated colors. A magnificent specimen. 11½ x 5. Chalcedony Park, A. T.

594 Malachite and Limonite. 7 x 7. Chrome Mine, A. T.

595 Native Asphaltum. 7 x 4. California.

596 Cuprite and Limonite. *Very fine.* 5 x 5. Bisbee, A. T.

597 Superb group of Quartz Crystals stained with metallic Oxides. 12 x 6. Hot Springs, Ark.

598 Malachite. *Fine.* Of uniform color. 6½ x 5. Picacho, A. T.

599 Muscovite. ½ inch thick. 8 x 4. Pennsylvania.

600 Chrysocolla and Malachite. 3½ x 3½. Cochise Co., A. T.

601 Cuprite and Calcite. 5 x 4. Atlanta Mine, A. T.

602 Malachite. *Extra fine.* 6 x 4½. Wade Hampton Mine, A. T.

603 Chalcopyrite. *Fine.* 6½ x 4. Yuma Co., A. T.

604 Kaolin. 5 x 5. Yavapai Co., A. T.

605 Phosphate of Lime. 4½ x 3. South Carolina.

606 Malachite. *Very fine.* 4 x 5. Wade Hampton Mine, A. T.

607 Jasperized Wood, (one side polished). 2½ x 3. Chalcedony Park, A. T.

608 Fossil Coral. 4½ x 2½. Two surfaces polished. Iowa.

609 Azurite and Malachite. *Very fine.* 5½ x 4. Clifton, A. T.

610 Staurolite. 1½ x 1. Georgia.

611 Kyanite. 2 x 1½. New Jersey.

612 Cinnabar. *Fine.* 1½ x 1. California.

613 Azurite. 2 x 2. Graham Co., A. T.

614 Quartzite with cinnamon-stone garnet. 2½ x 3½. Troublestone, A. T.

615 Crystal of Apatite. 1½ x ½. Renfrew, Canada.

616 Chloride of Silver Ore. 4 x 3½. Pima Co., A. T.

617 Azurite and Chrysocolla. 3 x 2. Pima Co., A. T.

618 Pyrite, Galenite and Quartz. This specimen is marked $35 silver, $15 gold. 6 x 4. Cochise Co., A. T.

619 Muscovite. 4½ x 3. Maine.

620 Azurite and Malachite. 4 x 2. Clifton, A. T.

621 Jasperized Wood. Section sawed across the grain showing portion of the bark, and the heartwood. *Very fine.* 7 x 6. Apache Co., A. T.

622 Azurite and Chrysocolla. 4 x 3. Huachuca Mts., A. T.

623 Galenite. 7 x 4. Tombstone, A. T.

624 Hematite. 3 x 4. Organ, Texas District, A. T. This specimen is marked $40 gold assay to the ton.

625 Serpentine. 2½ x 2. New Jersey.

626 Malachite and Chrysocolla. 4 x 3½. Longfellow Mine, A. T.

627 Corundum. 2 x 2. Pennsylvania.

628 Quartz Crystals and Malachite. 4 x 2½. Pima Co., A. T.

629 Azurite. 3 x 2. Pealosky Mine, A. T.

630 Chloride of Silver Ore. 8 x 6. Pima Co., A. T.

631 Azurite and Malachite. 4 x 3. Santa Rita Co., A. T.

632 Talc, (copper stained). 4 x 4. Copper Queen Mine, A. T.

633 Pink Calcite. 5 x 4. Massachusetts.

634 Azurite. 3 x 2. Clifton, A. T.

635 Pyrite. 2 x 2. Colorado.

636 Azurite and Cuprite. 3½ x 3. Longfellow Mine, A. T.

637 Zincite, Hematite, Manganese and Copper. 5 x 3½. Pima Co., A. T.

638 Galenite. 4 x 3. Dragoon Mts., A. T.

639 Chrysocolla. 3½ x 2½. Pima Co., A. T.
640 Fossil Coral (polished); *large and extra fine.* 5 x 5. Iowa.
641 Cuprite and Malachite. 4 x 4½. Bisbee, A. T.
642 Cuprite and Malachite on Limonite. 3 x 2½. Bisbee, A. T.
643 Pyrolusite. 7 x 5. Cochise Co., A. T.
644 Chloride Silver Ore. 2½ x 2. And a number of smaller specimens. Toughnut Mine, A. T.
645 Calcite. 4 x 3. Rincon Mts., A. T.
646 Azurite. 3 x 2. Morenci group, A. T.
647 Alabaster. 4 x 3. Canada.
648 Silicified Wood (polished). 2 x 2. Chalcedony Park. A. T.
649 Tetrahedrite and Erubescite. 3 x 3. *Rare.* Peabody Mine, A. T.
650 Topaz. ¾ x ½. Brazil. 2 pcs.
651 Moss Agates; uncut. *Fine.* 1 x 1. Wyoming. 3 pcs.
652 Pyrite. 2 x 1. Colorado.
653 Peacock Coal. 4 x 2. Harland Co., Ky.
654 Quartz Crystal. 3 x 1½. Hot Springs, Arkansas.
655 Cuprite on Malachite. 2 x 2. Cochise Co., A. T.
656 Cuprite and Chrysocolla. 2 x 2. Globe, A. T.
657 Geocronite. 2 x 2. Pima Co., A. T.
658 Calcite. 3 x 1. Rincon Mts., A. T.
659 Malachite and Cuprite. 1½ x 1½. Pima Co., A. T.
660 Calcite Crystals. 2 x 1½. Clifton, A. T.
661 Stalactite. 2½ x 1. Rincon Cave, A. T.
662 Azurite and Calcite. 2½ x 2. Pima Co., A. T.
663 Dendrite. 2½ x 1½. Apache Co., A. T.
664 Apatite Crystal. *Fine.* 2 x 1. Renfrew, Canada.
665 Graphite. 2½ x 2. 2 x 2. Canada.
666 Azurite. Morenci Group, A. T.
667 Bornite. 3 x 2. Tombstone, A. T.
668 Bornite on Calcite. 3 x 1½. Canada.
669 Fossil Coral (2 sides polished). 3½ x 3. Iowa.
670 Azurite. 3 x 4. Bisbee, A. T.
671 Calcite in crystal. *Fine.* 3 x 2½. Bisbee, A. T.
672 Wulfenite and Quartz. *Fine.* 5 x 3. Florence Mine, A. T.

673 Anthrophyllite. 3 x 2. New York.
674 Chalcedony. 3 x 2½. San Catalina, A. T.
675 Hematite. 3 x 2½. Grand Co., N. M.
676 Monazite. 3 x 2. Island of Monza, West Indies.
677 Chloride of Silver Ore. 3 x 2. Empire Mine, A. T.
678 Pyrite. 2½ x 2. Fortune Mine, A. T.
679 Chalcopyrite. 2½ x 2. Saddle Rock, A. T.
680 Malachite. 3 x 3. United Verde, A. T.
681 Pyrite nodule in Shale. 2½ x 2. Hancheon Mts., A. T.
682 Wavellite. 3 x 3. Arkansas.
683 Amethyst Crystal. 1½ x 1½. Mich.
684 Chloride of Silver Ore. 3½ x 2. Pima Co., A. T.
685 Siderite. 4 x 2. Connecticut.
686 Pyrite in Quartz; said to assay $35 gold and $10 silver to the ton. 3½ x 2½. Tonto District, A. T.
687 Pyrite in Quartz. 3½ x 3. Bell Mine, A. T.
688 Chalcopyrite. 2½ x 2. Montezuma Canyon, A. T.
689 Malachite and Azurite; the latter in fine crystalline groups. 4 x 3. Clifton, A. T.
690 Gold-bearing Quartz. 2½ x 2. Cochise Co., A. T.
691 Chloride of Silver Ore. 2½ x 2½. Total Wreck Mine, A. T.
692 Galenite. 2½ x 2. Alston Moor, Eng.
693 Malachite. 3 x 2½. Copper Queen Mine, A. T.
694 Chalcopyrite. 3 x 2. Colorado.
695 Wavellite. 3 x 2½. Arkansas.
696 Azurite. *Fine.* 2½ x 1. Murray Mine, A. T.
697 Calcite. 3 x 2½. Pima Co., A. T.
698 Cuprite and Chrysocolla. 3 x 3. Gaibe, A. T.
699 Amethyst Quartz. 4 x 2½. Rincon Mts., A. T.
700 Azurite and Cuprite. 3½ x 2. Clifton, A. T.
701 Malachite and Azurite. *Fine.* 3 x 2½. Clifton, A. T.
702 Augitite. 3½ x 2½. Flux Mine, A. T.
703 Malachite and Hematite. 3 x 2½. Sonora, Mex.
704 Chrysocolla. 3½ x 2. Pima Co., A. T.
705 Oxide of Antimony. 3 x 2½. Pima Co., A. T.
706 Amethyst Crystals on Agatized Wood. 4 x 3. Chalcedony Park, A. T.
707 Chrysocolla and Azurite. 3 x 2. Clifton, A. T.
708 Azurite and Quartz. 4 x 2. Pima Co., A. T.

709 Pyrite. 4 x 3. Yavapai Co., A. T.
710 Fossil Coral; 2 faces polished. *Very fine.* 4 x 2. Iowa.
711 Calcite and Azurite. 4½ x 3½. Santa Ritas, A. T.
712 Selenite. 4 x 3. Tombstone, A. T.
713 Calcite and Malachite. 4 x 2½. Huachuca Mine, A. T.
714 Cuprite. 4 x 3. Huachuca Mts., A. T.
715 Cuprite. 3 x 2½. Grant Co., N. M.
716 Lead Carbonate. 2½ x 2. Colorado.
717 Tetrahedrite. 3½ x 2½. Georgia.
718 Hematite. 2½ x 1½. Longfellow Mine, A. T.
719 Azurite and Calcite. 4 x 3½. Rincon Mts., A. T.
720 Cuprite and Malachite. 4½ x 2½. Bisbee, A. T.
721 Pyrite and Quartz. 3 x 3½. Tevis Mine, A. T.
722 Azurite. 3½ x 2. Morenci Group, A. T.
723 Graphite. 2½ x 2. Canada.
724 Pyrargyrite and Lead Carbonate. 4 x 2½. Leadville, Col.
725 Calcite and Malachite. 2½ x 1½. Pima Co., A. T.
726 Anglesite. 3½ x 2. Pima Co., A. T.
727 Native Copper and Cuprite. 2½ x 1½. *Very fine.* Clifton, A. T.
728 Copper Ore. 2½ x 2½. Copper Queen Mine, A. T.
729 Galenite and Malachite. 2½ x 2. Graham Co., A. T.
730 Rhodonite. 3 x 2½. New Jersey.
731 Azurite. 3 x 2. Black Bear Mine, A. T.
732 Green Calcite: crystalline tablet. 2½ x 1½. Penn.
733 Rutile Crystal. 1½ x 1½. Georgia.
734 Chalcedony and Calcite. 3 x 3. Yuma, A. T.
735 Malachite. 4 x 3. Bisbee, A. T.
736 Agatized Wood. 3 x 1½. Colorado.
737 Erubescite. 3 x 3. Tombstone, A. T.
738 Lead Carbonate. 4½ x 3. Sonora, Mex.
739 Chalcopyrite. 3 x 3. Fortune Mine, A. T.
740 Fossil Coral (polished). 2½ x 1½. Mich.
741 Quartz with striated crystalline surface. 6 x 4½. Mt. Mica, Paris, Me.
742 Magnetic Iron. 1½ x 1. Maine.
743 Galenite. 3½ x 2½. Belle Mine, A. T.

744 Azurite and Malachite. 5½ x 4. Yavapai Co., A. T.
745 Calcite Crystals and Native Copper. 2 x 2. Mich.
746 Rock Salt. 7 x 5. Poland.
747 Cuprite and Calcite. 4 x 2½. Bisbee, A. T.
748 Massive Iron Pyrites. 2½ x 2½. Litchfield, Conn.
749 Calcite on Gypsum. 7 x 5. Western New York.
750 Chalcopyrite. 2½ x 2. Huachuca Mts., A. T.
751 Fossil from Niagara Group. 7 x 5.
752 Stalagmite. *Very fine.* 3½ x 3. Luna's Cave, A. T.
753 Quartz with Black Tourmaline. 2½ x 2. Streaked Mountain, Me.
754 Green Mica Slate with small Garnets. 5 x 2. Brunswick, Maine.
755 Siliceous Rock covered with crystallized incrustations. 6 x 6. Maine.
756 Stalactite. 5 x 2. Kentucky Cave.
757 Pink Wernerite. 3 x 2. Massachusetts.
758 Slate filled with Fossil Shells and impressions. 10 x 9. Penobscot Co., Me.
759 Fossil Coral. 2½ x 1. Maine.
760 Mineral Salt. 3 x 3. Poland.
761 Slate with Fossil Shells. 7 x 5. Penobscot Co., Me.
762 Slate enclosing Geode of Calcite. 7½ x 5.
763 Sphalerite, Galenite and Quartz. 2½ x 2. Tip Top Mine, A. T.
764 Steinmanite. 3 x 2½. Yuma Co., A. T.
765 Gypsum with Selenite in Crystals. 6 x 5. Nova Scotia.
766 Jasperized Wood covered with Amethyst Quartz in Crystals. 7½ x 5. Chalcedony Park, A. T.
767 Black Hematite. 5 x 4. Eastern Maine.
768 Carboniferous Shale. Coal formation of Rhode Island. 4½ x 5.
769 Gypsum and Calcite Crystals. 9 x 5. Western New York.
770 Honeycomb Petrifaction. 5 x 5. Niagara Co., N. Y.
771 Petrifaction. 5 x 3. Niagara Co., N. Y.
772 Petrifaction, resembling No. 770. 5 x 3½. Niagara Co., N. Y.
773 Franklinite. 5 x 4. New Jersey.
774 Iron Ore, etc. 3 x 4. Warwick, Orange Co., N. Y.

775 Grey Agate, beautifully marked and polished. *Large and fine.* 7 x 6. Brazil.
776 Curious Shell-shaped formation. 2 x 1½. New York.
777 Copper Ore. 2 x 1½. Bound Brook Copper Mine, New Jersey.
778 Zincite and Calcite. 4 x 4. New Jersey.
779 Chalcedony. *Very fine.* 2 x 1. Huachuca Mts., A. T.
780 Steatite. 4 x 4. Rhode Island.
781 Fossil, like No. 771. 4 x 2. Niagara Co., N. Y.
782 Fossil Coral. Two sides polished. 4½ x 4. Iowa.
783 Copper Pyrites. 2 x 2.
784 Cuprite. 3 x 2½. New Jersey.
785 Slate with Fossil impressions of extinct Shells. 9½ x 7. Penobscot Co., Maine.
786 Like the last but shows different varieties of Fossils. 7 x 5. Penobscot Co., Maine.
787 Franklinite. 4 x 2½. Sterling, New Jersey.
788 Fossil. 4 x 3. Niagara Co., N. Y.
789 Selenite. 4 x 3. Nova Scotia.
790 Massive Iron Ore. 7 x 3. Raymond, Maine.
791 Petrified Rain Drops, so called. 6 x 4. Glenn's Falls, N. Y.
792 Lava. 3 x 2. Sandwich Islands.
793 Apatite. *Fine.* 1½ x 1. Canada.
794 Chalcocite. 7 x 10. United Verde, A. T.
795 Calcite. 5½ x 4. A. T.
796 Black Magnetic Iron Ore. 2 x 1½. Mich.
797 Cuprite. 2½ x 2. Bisbee, A. T.
798 Native Copper. 7 x 2. Ray Mine, A. T.
799 Roorback's Marl. 6 x 4. From a rivulet. Mount Dorchester, N. C.
800 Fossil Shell impressions. 5 x 3. Niagara Co., N. Y.
801 White Marble or Alabaster. 6 x 3. Rutland, Vt.
802 Copper Pyrites. 7 x 4. Massachusetts.
803 Ore of Antimony. 3½ x 3.
804 Roorback's Marl. 7 x 6. North Carolina.
805 Azurite and Malachite. 3 x 3. Clifton, A. T.
806 Kyanite. 7 x 4. Chesterfield, Mass.
807 Franklinite. 6 x 5. Copper Mine, N. J.

808 Galenite and Cerusite. 3 x 4. Lucky Find, Arivaca, Dakota Ter.
809 Alabaster. 2½ x 2. New Brunswick, B. N. A.
810 Selenite and Gypsum. 6 x 5. Niagara Co., N. Y.
811 Quartz Crystals. 5 x 2½. Hot Springs, Ark.
812 Cuprite and Calcite. 2½ x 2½. Cochise Co., A. T.
813 Razorback's Marl. 4 x 4. North Carolina.
814 Calcite and Gypsum. 4 x 3. Niagara Co., N. Y.
815 Azurite and Malachite. *Fine.* 4 x 2½. Clifton, A. T.
815 Chalcopyrite. 4½ x 3. Clifton, A. T.
817 Muscovite. 6 x 4. Connecticut.
818 Sphalerite. 3 x 2. Sonora, Mexico.
819 Petrifaction, like No. 779. 3 x 3. Niagara Co., N. Y.
820 Calcite. 4 x 3½. A. T.
821 Chalcedony. *Fine.* 5 x 4. Haddam, Conn.
822 Red Building Stone. 4 x 4. Peters' Woods, Roxbury, Mass.
823 Green Beryl. 3½ x 2. Mount Mica, Paris, Maine.
824 Cerargyrite. 5 x 4. Justice Mine, A. T.
825 Azurite. 4 x 4. Clifton, A. T.
826 Rock Salt; Chloride of Sodium. 4 x 6. Sonora, Mex.
827 Amethyst Crystals on Jasperized Wood. 2½ x 2½. Chalcedony Park, A. T.
828 Obsidian. 3 x 2½. Mexico.
829 Muscovite. 4 x 2½. Mount Mica, Me.
830 Copper Ore. 1½ x 2. Bound Brook, N. J.
831 Franklinite and Calcite. 4 x 6.
832 Sulphuret of Zinc. 5½ x 4. New Jersey.
833 Masonite. 4 x 4. East Greenwich, R. I.
834 Azurite. 7 x 4. Clifton, A. T.
835 Limonite. 4 x 2. Grant Co., N. M.
836 Idocrase. 4 x 3. Sanford, Me.
837 Celestine. 4 x 2½. Sicily.
838 Garnets in Slate. 3½ x 2. Orange Co., N. Y.
839 Garnet in Limestone. 5½ x 4.
840 Chalcopyrite. 3 x 4. Brown Canon, A. T.
841 Calcite and Malachite. 6 x 4½. Rincon Mts., A. T.
842 Chalcopyrite. 5 x 3½. Eureka Mine, A. T.
843 Malachite. 3 x 4. Bisbee, A. T.

844 Fossil Impressions of the Bark of Sigillaria; from Carbondale Coal Mine, Pennsylvania. Brought from the mine the day before the roof fell in in 1845.
845 Impressions of Fossil Shells in Slate. 7 x 5. Catskill Mts., N. Y.
846 Azurite and Limonite. 4½ x 4. Bisbee, A. T.
847 Gypsum with Selenite. 3 x 4. Niagara Co., N. Y.
848 Aragonite. 5 x 4. Lockport, N. Y.
849 Columnar Iron Ore. 7 x 5. Marquette Co., Mich.
850 Petrified Coral. 6 x 4½.
851 Malachite and Azurite. *Fine.* 5 x 4. Clifton, A. T.
852 Fossil Coral. 3½ x 3. Iowa.
853 Black Tourmaline in White Quartz. Handsome specimen. 4 x 4. Mount Mica, Me.
854 Azurite. 4 x 3. Clifton, A. T.
855 Forest Rock. 4½ x 3½. Wisconsin.
856 Fossil Coral. 4 x 4. Niagara Co., N. Y.
857 Malachite. 6 x 3½. United Verde, A. T.
858 Aragonite. *Very fine.* 5 x 4. Haddam, Conn.
859 Fossil Impressions Aphylum. 8 x 5. Carbondale, Pa.
860 Fossil Shells. 3½ x 3½.
861 Like the last. 3 x 4.
862 Columnar Iron Ore. 5 x 3. Eastern Maine.
863 Malachite and Azurite. 4½ x 3. Clifton, A. T.
864 Fossil Shells, Encrinites, etc. 8 x 5. Richmond, Me.
865 Gypsum with Calcite. 5 x 4. Niagara Co., N. Y.
866 Galenite. 5½ x 3½. Mojave Co., A. T.
867 Malachite. 4½ x 3. Copper World Mine, A. T.
868 Gypsum, etc. 5 x 3. Niagara Co., N. Y.
869 Alabaster. 3½ x 3. Canada.
870 Black Marble. 3½ x 2. Glenn's Falls, N. Y.
871 Chrysocolla and Azurite. 2 x 1½. Longfellow Mine, A. T.
872 Galenite. 4½ x 3½. Gila Co., A. T.
873 Fire Clay. 2½ x 4. Kentucky. Several pieces.
874 Clay Stone. 7 x 4. Turner's Falls, Mass.
875 Copper Pyrites. 3 x 2½. Stratford, Vt.
876 Copper Ore. 3 x 2. Bound Brook, N. J.
877 Cinnamon Stone Garnet. 6 x 4. Warwick, N. Y.
878 Calcite on Gypsum. 4 x 3½. Niagara Co., N. Y.

879 Rose-colored Selenite and Gypsum. 6 x 4½. Niagara Co., N. Y.
880 Kyanite. *Fine.* 3¾ x 4. Connecticut.
881 Azurite and Malachite. 3 x 2. Maricopa Co., A. T.
882 Corundum. 2½ x 2. South Carolina.
883 Tremolite with Fossil Shell Impressions. 5 x 3. Raymond, Me.
884 Gypsum. 5 x 3. Niagara Co., N. Y.
885 Slate with Leaf Impressions. 4 x 3. Coal Mines, Carbondale, Pa.
886 Malachite and Limonite. 4½ x 3. Chromo Mine, A. T.
887 Jasper. 3½ x 2. Oxford, Me.
888 Selenite on Gypsum. 4 x 3½. Nova Scotia.
889 Malachite and Azurite. 2½ x 2. Atlanta Mine, A. T.
890 Galenite and Quartz. 5 x 4. Assays $40 silver to the ton. Tombstone, A. T.
891 Black Tourmaline or Schorl and Quartz. 3½ x 2½. Warwick, N. Y.
892 Garnets in Mica Slate. 5 x 2½. Orange Co., N. Y.
893 The same with Calcareous Spar. 3½ x 2½.
894 Garnet. 2½ x 2. Haddam, Conn.
895 Galenite and Quartz. 4½ x 3. Assays $59 silver and gold to the ton. Coolidge Co., A. T.
896 Hornblende. 2 x 2½. Maine.
897 Native Sulphur. 3¼ x 2. Sicily.
898 Gypsum and Selenite. 4½ x 3. Nova Scotia.
899 Smoky Quartz. 4 x 2½. Mount Mica, Paris, Me.
900 White Marble; one side polished. 3 x 3. Girard College, Philadelphia, Pa.
901 Scaly Red Iron Ore. 4 x 2. Utica, N. Y.
902 Fossil Impressions. 7 x 4½. Coal formation. Rhode Island.
903 Cuprite. 3 x 2½. A. T.
904 Galenite. 2½ x 2½. Tip Top Mine, A. T.
905 Copper Pyrites. 2½ x 2½. Lake Superior.
906 Micaceous Iron. 2 x 1½. Pima Co., A. T.
907 Tellurium Gold. 5 x 4. Dos Cabezas, A. T.
908 Rose Gypsum. 4 x 3. Nova Scotia.
909 Black Hematite. 2½ x 2. Nova Scotia.

910 Gypsum. Concentric Geodic Formation. 2½ x 2. Niagara Co., N. Y.

911 Quartz Crystals on Jasperized Wood. 2½ x 3. Chalcedony Park, A. T.

912 Galenite. 4 x 3½. Tombstone, A. T.

913 Dark Flint. 4 x 3. Glenn's Falls, N. Y.

914 Yellow Prussiate of Potash. Chemical product in crystals. 3 x 3.

915 Graphic Granite. 3 x 2. Streaked Mountain, Paris, Me.

916 Stalactite. 2½ x 2. Kentucky Cave.

917 Specular Iron Ore. *Fine.* 3 x 2½. New York.

918 Crystals of Quartz. 4 x 2½. Haddam, Conn.

919 Cinnamon Stone Garnet. 4 x 3. Warwick, N. Y.

920 Stanolite in Crystals. 4½ x 3. Mink Pond, N. H.

921 Iron Pyrites. 2½ x 3. Haddam, Conn.

922 Aragonite. 4 x 3. Sicily.

923 Cuprite and Malachite. 5 x 4. Cochise Co., A. T.

924 Slate with Fossil Shell Impressions. 5 x 3½. Penobscot Co., Me.

925 Crystals of Spar and Quartz. 3 x 2. Niagara Co., N. Y.

926 Fossil Impressions. 4 x 3. Maine.

927 Chalcopyrite. 5 x 4. United Verde, A. T.

928 Chloride Silver and Galenite in Quartz. 6 x 5. Jersey Lily Quijotors, A. T.

929 Arseniate of Iron. 2 x 1½. Warwick, N. Y.

930 Galena and Spar. 3 x 2.

931 Selenite. 4 x 3. Nova Scotia.

932 Azurite and Malachite. 9 x 6. Bisbee, A. T.

933 Mica. 9 x 4. Mount Mica, Paris, Me.

934 Iron Ore. 4 x 3½. Warwick, N. Y.

935 Dog Tooth Spar. *Fine.* 4 x 4. Lockport, N. Y.

936 Feather Alum. *Fine and rare.* 6½ x 1½. Dry Plains of Iquique, Peru.

937 Pyrite. 4 x 2½. Colorado.

938 Pyrite and Galenite in Quartz. 6½ x 4. Tombstone, A. T.

939 Mica. *Very fine.* 4½ x 3. Picked up at Mount Mica, Maine, in 1843.

940 Copper Pyrites with Quartz. 3 x 4. Lake Superior.

941 Green Calcite; crystalline. *Fine.* 5 x 4. Penn.

942 Pink Calcite. 2 fine examples. 3½ x 2½. Penn.

943 Iron Ore and White Quartz. 3½ x 2. Warwick, R. I.

944 Calcite and Quartz. 5 x 4. Niagara Co., N. Y.

945 Tremolite. 6 x 5. Bagdad Mine.

946 Cancrenite. *Rare and of fine color.* 4 x 3. Litchfield, Me.

947 Specular Iron Quartz Crystals and Hematite. 2½ x 1½. Cleata Moor, Eng.

948 Brazilian Agate, beautifully cut and polished. 4½ x 3.

949 Agatized Wood, finely polished. 5 x 4. Chatsworth Park, A. T.

950 Iron Ore with Quartz. 4½ x 2. Lake Superior.

951 Large Flattened Crystal of Quartz. 4 x 4. Hot Springs, Ark.

952 Selenite on Gypsum. 3½ x 2. Niagara Co., N. Y.

953 Greenish Granite Stone. 3 x 2½.

954 Franklinite, Black Tourmaline and Calcite. 3 x 2½. Bound Brook, N. J.

955 Black Tourmaline, etc. 3½ x 2½. A. T.

956 Brazilian Agate. Various colors. Shows particularly deep red, which is *very rare*. 2½ x 2½.

957 Portion of a large Crystal of Smoky Quartz. 3½ x 3. A. T.

958 Dogtooth Spar and Gypsum. 5 x 3. Lockport, N. Y.

959 Asbestos. *Fine.* 4½ x 1½. Milford, Conn.

960 Feldspar. 3½ x 2. New Bedford, Mass.

961 Selenite and Gypsum. 4 x 3. Nova Scotia.

962 Trapezo-hedral Crystals of Garnet in Mica Slate. *Very fine.* 3½ x 2. Munroe, Conn.

963 Black Hematite. 3 x 2. Lake Superior.

964 Small Garnets in Mica Slate. 3 x 3. Brunswick, Me.

965 Cinnamon Stone Garnets in Quartz. 3 x 2. Warwick, N. Y.

966 Crystals of Tabular Spar on Gypsum. 3 x 2. Lockport, N. Y.

967 Smoky Quartz, a large crystal. 2 x 1½. Lake George, N. Y.

968 Garnets in Black Mica Slate. 3½ x 3. Glenn's Falls, N. Y.
969 Fossil Shell Impressions. 3 x 2. Saratoga Co., N. Y.
970 Quartz and Chalcedony. 2½ x 2. A. T.
971 Copper Ore. 2 x 2. Bound Brook, N. J.
972 Cubic Crystal of Iron Pyrites. 1¼ x 1. Castleton, Vt.
973 Gypsum; crystallized (Selenite) and massive. 5 x 3. Niagara Co., N. Y.
974 Fine Red Granite. 2½ x 2. Glenn's Falls, N. Y.
975 Tabular Spar. 2½ x 1½. Niagara Co., N. Y.
976 Selenite. 3 x 1. Niagara Co., N. Y.
977 Massive Gypsum. 3½ x 3. Niagara Co., N. Y.
978 Selenite in Crystals. 3 x 1½. Niagara Co., N. Y.
979 Galena. 2 x 2. Wisconsin.
980 Coal Formation. 6 x 3. Newport, R. I.
981 Green Beryl. Two crystals joined at the end. 1½ x 1½. Albany, Me.
982 Gypsum and Tabular Spar. 4 x 2½. Niagara Co., N. Y.
983 Bog Iron Ore. 2½ x 2. Salisbury, Conn.
984 Copper Ore. 3 x 2½. Bound Brook, N. J.
985 Quartz, crystalline. 2 x 2. Mount Mica, Me.
986 Quartz with Tourmaline. 3 x 2½. Streaked Mountain, Me.
987 Selenite. 5½ x 3½. Nova Scotia.
988 Green Beryl in Crystal. 2 x 2. Albany, Me.
989 Red Jasper. 3 x 2½. Oxford, Me.
990 Galenite and Copper Pyrites. 4½ x 4. Lake Superior.
991 Alabaster. 3 x 2½. Kentucky Cave.
992 Formation taken from the bottom of a Mineral Spring at Saratoga, N. Y. 7 x 10.
993 Kyanite. 4 x 3. Massachusetts.
994 Brazilian Agate, polished. 4 x 3.
995 Copper Ore. 3½ x 2½. Champion Mine, Copper Dist., Wis.
996 Galena in massive Crystals. 6 x 5. Missouri.
997 Quartz and Iron Pyrites. 5 x 3. Missouri.
998 Mica with handsome Tabular Crystals. 4½ x 4.
999 Dogtooth Spar. 5 x 3. A. T.

1000 Massive Actinolite. 3½ x 2
1001 Dendrite Limestone, or Forest Rock. 2½ x 2. Cobo
1002 Iron Pyrites in Crystals. 2½ x 2. Mammer.
1003 Carbonate of Lime with Sulphuret Molybdena. 3½ x 2 Warwick, N. Y.
1004 Garnets. 3½ x 2½.
1005 Actinolite. 4 x 3
1006 Magnetic Iron Ore. 2½ x 2
1007 Garnets in Green Mica Slate from the celebrated location at Brunswick, Me. Nearly all the existing specimens were received from Prof. Cleaveland. 3 x 2
1008 Chalcopyrite. 3½ x 2. Lake Superior.
1009 Lepidolite. *Fine.* 2½ x 2. Mount Mica, Me.
1010 Mica. 3 x 3. Mount Mica, Paris, Me.
1011 Red Tourmaline, etc. 2½ x 2½. Mount Mica, Me.
1012 Ribbon Agate. 6 x 6 x 6. Lowville, Lawrence Co., N. Y.
1013 Fossil Shells and Fossil Shell Impressions. 5 x 3. Saratoga Co., N. Y.
1014 Dogtooth Spar and Gypsum. 4 x 3. Nova Scotia.
1015 Dogtooth Spar. 3 x 2½. Lockport, N. Y.
1016 Striated Gypsum. 4½ x 2½. Nova Scotia.
1017 Sawed Clay Stone. 3 x 2. New Hampshire.
1018 Petrified Wood. 6 x 3½. Susanville, Cal.
1019 Green Silicate of Copper. 6 x 5. New Jersey.
1020 Black Muscovite. 4½ x 2.
1021 Siliceous Sandstone. 4 x 3.
1022 Sulphate of Barytes. 3½ x 3. Connecticut Barytes Mine.
1023 Silver Ore with Quartz in Crystals. 4 x 3½. A. T.
1024 Franklinite. 3 x 3. Bound Brook, N. J.
1025 Anglesite. 2 x 2. Flux Mine, A. T.
1026 Leaf Muscovite. 2½ x 1½. Pima Co., A. T.
1027 Azurite and Tetrahedrite. *Fine.* 2 x 2. Pima Co., A. T.
1028 Muscovite. 3 x 4. Streaked Mountain, Me.
1029 Smithsonite. 3½ x 2½. Partly polished. *Very fine. Rare.* Greece.
1030 Spinel in Octahedral Crystals with Rutile in White Limestone. 3½ x 3. Amity, Orange Co., N. Y.
1031 Idocrase. 2½ x 3. A. T.

1032 Azurite and Calcite. 2 x 3. Huachuca Mts., A. T.
1033 Galenite in cubes coated with Quartz and Iron Pyrites. 2½ x 2. Alston Moor, England.
1034 Calcite on Gypsum. 3½ x 3. Niagara Co., N. Y.
1035 Cleavelandite; crystalline. 1 x 1. Mount Mica, Me.
1036 Chrysoberyl and Calcite. 2½ x 2. Haddam, Conn.
1037 Azurite. 3 x 2. Longfellow Mine, A. T.
1038 Alabaster. 2 x 3. Mexico.
1039 Zincite and Calcite. 5 x 4. New Jersey.
1040 Calcite and Quartz in Crystals. 4 x 2. A. T.
1041 Copper Pyrites in Quartz. 3½ x 3. A. T.
1042 Azurite and Malachite. Assays $120 to ton. 3½ x 3. Santa Ritas, A. T.
1043 Calcareous Spar. 2½ x 1. Warwick, N. Y.
1044 Quartz and Calcite. 2½ x 2½. A. T.
1045 Green Mica Slate with Pyrites. 3 x 3. Brunswick, Me.
1046 Selenite with Gypsum. 2½ x 2½. Nova Scotia.
1047 Stalactite. 3½ x 1. Kentucky Cave.
1048 Red Feldspar. 4 x 1½. Rhode Island.
1049 Ferruginous Quartz. 3 x 3. Maine.
1050 Green Calcite and Gypsum. *Fine.* 4 x 3. Penn.
1051 Steatite. 2½ x 1½. Rhode Island.
1052 Alabaster. 2 x 2. Canada.
1053 Black Tourmaline with Albite and Quartz. 3 x 2. Haddam, Conn.
1054 Selenite and Gypsum. 2½ x 2. Nova Scotia.
1055 Fossil Raindrops. 5 x 3. Glenn's Falls, N. Y.
1056 Garnets in Granite. 3 x 2. Conn.
1057 Bog Iron Ore. 2½ x 2. Mass.
1058 Petrified Wood. 3 x 2. A. T.
1059 Marble. 3 x 2. Girard College, Pa.
1060 Chlorite. 1½ x 1.
1061 Calcite and Selenite. 3½ x 2. Nova Scotia.
1062 Speiss. *Fine.* 2½ x 2. Benson, A. T.
1063 Cerusite. 3 x 3. Leadville, Col.
1064 Brown Hematite. 4 x 3. Salisbury, Conn.
1065 Gypsum with Massive Selenite. 3½ x 2. Nova Scotia.
1066 Malachite. *Fine and rare.* 2½ x 2. Russia.

1067 Mass of small Quartz Crystals, from Diamond Rock, Lansingburg, N. Y. 3 x 2

1068 Black Tourmaline, etc. 2½ x 1. Paris, Me.

1069 Copper Ore. 2½ x 2. Bound Brook, N. J.

1070 Copper Ore with Calcite. 2½ x 2½. Bound Brook, N. J.

1071 Selenite with Massive Gypsum. 2½ x 2. Nova Scotia.

1072 Selenite. 2½ x 2½. Nova Scotia.

1073 Selenite with Calcite. 2½ x 2½. Nova Scotia.

1074 Petrified Raindrops. 2½ x 2. Glenn's Falls, N. Y.

1075 Feldspar and Green Beryl. 2½ x 2½. Albany, Me.

1076 Sulphurets of Copper, Zinc, and Lead. 2 x 1½. Warren, N. H.

1077 Idocrase. 4 x 2½. Sanford, Me.

1078 Petrifactions. 3½ x 2. Maine.

1079 Chloride of Silver Ore. 2½ x 2. Total Wreck Mine, A. T.

1080 Green Beryl in Feldspar. 3 x 1. Streaked Mount, Paris, Me.

1081 Tourmaline in Quartz. 3 x 3. Maine.

1082 Spodumene. 4 x 2. Hatfield, Mass.

1083 Black Tourmaline with Hematite. 4 x 3. Lake Superior.

1084 Toothshaped Stalactite. 3 x 1½. Kentucky Cave.

1085 Quartz and Feldspar. 2 x 1½. Maine.

1086 Azurite and Calcite. 3 x 2. New Jersey.

1087 Smoky Quartz. 3½ x 2½. Mount Mica, Maine.

1088 Massive Iron ore. 3½ x 2. Conn.

1089 Quartz and Feldspar. 2 x 1½. A. T.

1090 Pink Feldspar. 2 x 2. Haddam, Conn.

1091 Conglomerate of small Silicious Pebbles. 3½ x 2½. Bladensburg, Md.

1092 Silicious Stone in radiated form. *Fine.* 3 x 2½.

1093 Feldspar with Green Beryl. 4 x 3. Haddam, Conn.

1094 Black Iron Ore. 4 x 3. Salisbury, Conn.

1095 Native Sulphur. 3 x 2½. Sicily.

1096 Milky Quartz. 3 x 2½. Paris, Me.

1097 Fossil Shell Impressions. 3 x 2½. Maine.

1098 Quartz and Mica. 3 x 2. Maine.

1099 Milky Quartz. 3 x 2½. Maine.

1100 Hematite, Ore of Iron. 4 x 3. Salisbury, Conn.
1101 Mica Slate, with numerous fine crystals of Garnet. 3½ x 2. Warwick, N. Y.
1102 Stalactite. 13 x 5. Kentucky Cave.
1103 Selenite and Gypsum. 4 x 3. Nova Scotia.
1104 Calcareous concretion. 4 x 4.
1105 Black Tourmaline. 3½ x 2. Streaked Mt., Me.
1106 Galena in Quartz. 3 x 2½. Prospect Hill, Waltham, Mass.
1107 Selenite. 2½ x 2½. Nova Scotia.
1108 Calcareous Spar. 3½ x 2. Sandy Hill, N. Y.
1109 Native Sulphur. 3 x 2. Sicily.
1110 Red Slate. 3 x 2. Battenkill, N. Y.
1111 Steatite. 3 x 2. Orford, N. H.
1112 Gypsum and Selenite. 4 x 2½. Nova Scotia.
1113 Fossil Shell impressions. 3 x 2½. Penobscot Co., Me.
1114 Calcareous Spar and Tourmaline. 4 x 3. Paris, Me.
1115 Copper Ore. 2 x 2. Bound Brook, N. J.
1116 Idocrase. 4½ x 2½. Raymond, Me.
1117 Red Jasper. 2 x 2. Middlebury, Vt.
1118 Petrified Wood. 2 x 2. Picked up on a street in New York.
1119 Green Mica Slate. 3 x 2. Brunswick, Me.
1120 Calcareous Spar with Garnets and Black Tourmaline. 3 x 2. Paris, Me.
1121 Schorl, or Black Tourmaline in Quartz. 2 x 2. Paris, Me.
1122 Green Beryl. 2 x 2. Paris, Me.
1123 Green Silicate of Copper. 4 x 2. Bound Brook, N. J.
1124 Aragonite and Garnets. 5 x 4. Sicily.
1125 Franklinite and Garnets. 3 x 3. Bound Brook, N. J.
1126 Kyanite. *Fine.* 3½ x 3. Litchfield, Conn.
1127 Boulder of Red Jasper. 2 x 3. Oxford, Me.
1128 Smoky Quartz with Crystal of light green Beryl. 3 x 2. Paris, Me.
1129 Massive and dense Iron Ore. 2½ x 2. Peru, N. Y.
1130 Garnets in Mica Slate. 3½ x 2½.
1131 Magnetic Iron Ore. 2 x 2. Raymond, Me.
1132 Fossil Shell impressions. 2 x 3. Penobscot Co., Me.

1133 Green Silicate of Copper. 3 x 2 Bound Brook, N. J.
1134 Magnetic Iron Ore. 2 x 1. Fragment of Andover Rock, Rehoboth, Mass.
1135 Rosaline from Borax melted in a crucible. 4½ x 2
1136 Marmolite. *Very fine.* 3 x 2. Galena, Ill.
1137 Crystallized Quartz. 4 x 2.
1138 Large fragment of the Temple at Ephesus. 4 x 4.
1139 Idocrase and Black Tourmaline. 4 x 3. Raymond, Me.
1140 Green Mica Slate. 2½ x 2 Brunswick, Me.
1141 Idocrase. 4 x 2. Maine.
1142 Chrysolite. 4 x 2½. Canada.
1143 Franklinite. 4 x 3. Franklin, N. J.
1144 True Flint. 2 x 1. Chalk beds of Dover, England.
1145 Light Granite with small Garnets. 4½ x 3. Lincoln Monument, Ill.
1146 Calcite and Quartz. 3½ x 2½. Niagara Co., N. Y.
1147 Chloride of Silver Ore. 3 x 4. Pima Co., A. T.
1148 Selenite, crystallized Gypsum. Transparent as glass. *Very fine.* 7 x 3. Nova Scotia.
1149 Epidote. 2 x 2½. Haddam, Conn.
1150 Calcite. 4½ x 3. St. Lawrence Co., N. Y.
1151 Specular Iron Ore. 5 x 2½. Lake Superior, Mich.
1152 Crystal of Topaz. 1 x ½. Paris, Me.
1153 Quartz Crystal. 2½ x 1. Haddam, Ct.
1154 Crystal of Sulphuret of Iron. 1 x ½.
1155 Fine Drusy Crystals of Quartz, geodic in form. 3 x 3. Michigan.
1156 Green Mica Slate with Kyanite. 4½ x 3. Windham, Me.
1157 Calcite in Crystals on massive Gypsum. *Fine.* 7 x 7.
1158 Selenite. 2 x 2. Nova Scotia.
1159 Claystone, symmetrical and fine. 2 x 3. Turner's Falls, Mass.
1160 Calcareous concretion, from the bed of a Saratoga Mineral Spring. 15 x 4. Contains a root extending through its whole length.
1161 Native Copper. 3½ x 1. Lake Superior.
1162 Crystals of Sphene or Titanite. 1½ x 1. Eganville, Ontario, Canada.
1163 Asbestos. 3 x 3. Thetford, Canada.

1164 Water-worn Pebble from Washington's garden in Mount Vernon. Found in 1854. $2\frac{1}{2}$ x $2\frac{1}{2}$.

1165 Quartz containing several simple minerals. $3\frac{1}{2}$ x 4. Orange Co., N. Y.

1166 Crystals of Garnet. 4 x $3\frac{1}{2}$. Raymond, Me.

1167 Petrified Wood. Small section, both ends polished. $2\frac{1}{2}$ x 2. A. T.

1168 Hematite. $4\frac{1}{2}$ x 3. Lake Superior.

1169 Stucco. 3 x 2. Herculaneum. Polished, and with ancient painting.

1170 Gypsum. 3 x $2\frac{1}{2}$. Nova Scotia.

1171 Calcite and Gypsum. 3 x $2\frac{1}{2}$. Nova Scotia.

1172 Fossil Encrenite, etc. $4\frac{1}{2}$ x $2\frac{1}{2}$. Niagara Co., N. Y.

1173 Portion of a large Crystal of Black Tourmaline. 3 x $2\frac{1}{2}$. Paris, Me.

1174 Fossil impressions. 4 x 3. Carbondale, Pa.

1175 Fossil Honeycomb. $5\frac{1}{2}$ x 3. Niagara Co., N. Y.

1176 Red and Green Tourmaline, etc. 3 x 3. Mount Mica, Paris, Me.

1177 Copper Ore. 2 x 1. Bound Brook, N. J.

1178 Graphic Granite. 3 x 2. N. Y. C. R.R., Dorchester, Mass.

1179 Iron Ore. 3 x 2. Warwick, N. Y.

1180 Copper Ore. 2 x 2. Lake Superior.

1181 Fossil Shell, Penobscot Co., Me.

1182 Green Asbestos. 2 x 1. Warwick, N. Y.

1183 Chlorite. 2 x 2. Raymond, Me.

1184 Mica, etc. 4 x 2. Maine.

1185 Actinolite. 2 x 2. Raymond, Me.

1186 Copper and Galena. 2 x 1. Bound Brook, N. J.

1187 Garnets with Green Mica. $2\frac{1}{2}$ x 1. Warwick, N. Y.

1188 Crystal of Green Beryl. 1 x $1\frac{1}{2}$. Albany, Me.

1189 Prehistoric Indian Pottery. $2\frac{1}{2}$ x $1\frac{1}{2}$. Thompson Pond, Me.

1190 Green Beryl. 2 x 3. Streaked Mountain, Me.

1191 Prehnite. 4 x 3. Charlestown, Mass.

1192 Sulphuret of Iron. 4 x $2\frac{1}{2}$. Charlestown, Mass.

1193 Borate of Lime. Dry Plains of Iquique, Peru, South America. 3 pcs.

1194 Fossil Coral. 6 x 5. Mexico.

1196 Galena. 2 x $1\frac{1}{2}$. Missouri.

1197 Copper Ore. 2 x 1½. Ward's Copper Mine, N. Y.
1199 Garnet. Perfect dodecahedral crystal from California, and a small Pearl from a New England fresh-water shell.
1200 Green Silicate of Copper. 2½ x 2. N. J.
1201 Green Mica Slate. 2 x 1½. Brunswick, Me.
1202 Copper Ore. 1½ x 1. Bound Brook, N. J.
1203 Aragonite. 1 x 1. Sicily.
1204 Galena. 1 x 1. Prospect Hill, Waltham, Mass.
1205 Peroxide of Tin. 1½ x 2. *Very rare.* Jackson, Miss.
1206 Hematite Iron Ore. 2 x 1½. Salisbury, Conn.
1207 Feldspar. 1½ x 1. Oxford, Me.
1208 Iron Ore. 2 x 2. Salisbury, Conn.
1209 Fossil. Resembles a honeycomb. 5 x 5. Niagara Co., N. Y.
1210 Grey Marble. 3 x 3. Green Mountains, Vt.
1211 Beryl, Royalston, Mass. 3 pcs.
1212 Beryl, Brunswick, Me.
1213 Like 1209. Same locality.
1214 Freshwater Shells. Maine. 5 pcs.
1215 Flattened Geode, interior covered with crystals. 5 x 4.
1216 Sectional fragment of the Charter Oak. Diam. 3. in. Hartford, Conn.
1219 Galena. 5 x 3½. Waltham, Mass.
1220 Massive Gypsum, coated with Alabaster. 10 x 5. Niagara Co., N. Y.
1221 Fossilized mass, resembling 1209 and 1213. 10 x 5.
1222 White Marble. 3 x 2. Rutland, Vt.
1223 Selenite on Gypsum. 4 x 3. Niagara Co., N. Y.
1224 Aragonite. *Fine.* 5 x 4. Sicily.
1225 Fossils. 4 x 4.
1226 Fossils, Encrinites, etc. 4 x 3. Nova Scotia.
1227 Aragonite. 6 x 4. Sicily.
1228 Masses of Crystals coated with Alabaster. 4 x 3. Niagara Co., N. Y.
1229 Fossils. 5 x 4. Niagara Co., N. Y.
1230 Gypsum and Selenite. 5 x 4. Niagara Co., N. Y.
1231 Stalactite. 3½ x 2½. Kentucky Cave.
1232 Gypsum Formation. 5 x 3. Niagara Co., N. Y.

1233 Silicious Rock; appears as though crystallized and since melted. 4 x 3. Nova Scotia.

1234 Fossil Gypsum Formation. 5 x 4. Niagara Co., N. Y.

1235 Stalactite. 3 x 1½. Kentucky Cave.

1236 Aragonite. 4 x 4. Sicily.

1237 Blue Slate Whetstone. 3 x 2. New Hampshire.

1238 Fossil Encrenites. 7 x 5.

1239 Fossil Giant Palm or Aphylum. 7 x 6. Carbondale, Pa.

1240 Aragonite. 4 x 5. Sicily.

1241 Fossil; the interior consisting mainly of Chalcedony. 4 x 3. Niagara Co, N. Y.

1242 Fossil; different varieties. Character and location like the last. 3½ x 3.

1243 Masonite, Galena, Mica and Garnets. 5½ x 3½. Bristol, R. I. This rare mineral, Masonite, is said to be known in no other locality.

1244 Calcareous Spar on Gypsum. 5 x 4. Niagara Co., N. Y.

1245 Ferruginous Quartz. 3 x 2.

1246 Minute distinctly Crystallized Garnets, in Mica Slate. 3 x 2. Rhode Island.

1247 Galenite. 2 x 2. Missouri.

1248 Masonite with Talc. 3½ x 2½. Natick, R. I. See note ante, No. 1243.

1249 Silicious Concretion. 2½ x 2. Rhode Island.

1250 Fossil Shell impressions. 3 x 2½. Penobscot Co., Me.

1251 Galena. 3 x 2½. Missouri.

1252 Bog Iron Ore. 2½ x 2. Maine.

1253 Fossil impressions. 4 x 2. Penobscot Co., Me.

1254 Aragonite. 5½ x 3. Sicily.

1256 Stalactite. 3 x 2½. Kentucky Cave.

1257 Fossil Shell impressions. 3 x 2½. Penobscot Co., Me.

1258 Stalactite. 2½ x 2. Kentucky Cave.

1259 Galenite. 3 x 3. Missouri.

1260 Stalactitic Geode. Diameter 3 in. Kentucky Cave.

1261 Stalactite. 5½ x 3. Kentucky Cave.

1262 Mica in rhomboidal irregularly crystalline form. 4½ x 2½. Paris, Me.

1263 Fossil impressions. 5½ x 3. Coal Mines of Pennsylvania.
1264 Fossil Bivalve Shell. 1 x 1. Penobscot Co., Me.
1265 Galenite. 2½ x 2½ Missouri.
1266 Irregular Stalactite. 4 x 2. Kentucky Cave.
1267 Fossil impressions. 4½ x 3. Penobscot Co., Me.
1268 Stalactite. 2½ x 1½. Kentucky Cave.
1269 Prehnite. 4 x 2. Charlestown, Mass.
1270 Fossil impressions. 4½ x 2. Pennsylvania.
1271 Crystallized Quartz. 3 x 3. A. T.
1272 Galenite. 4 x 3½. Missouri.
1273 Twin Stalactites. 9 x 4½. Kentucky Cave.
1274 Large sheet of Muscovite. 9½ x 7. Haddam, Ct.
1275 Calcite on Gypsum. 8 x 8. Niagara N. Y.
1276 Alabaster. 3 x 2½. Canada.
1277 Stalactite. 3 x 2.
1278 Gypsum formation. 8½ x 5. Niagara Co., N. Y.
1279 Massive Smoky Quartz. 5 x 3. A. T.
1280 Crystallized Quartz. 6½ x 4. A. T.
1281 Calcite on Gypsum. 11 x 7. Niagara Co., N. Y.
1282 Red Sandstone. 4 x 3. Burlington, Vt.
1283 Prehnite. 4 x 6. Charlestown, Mass.
1284 Iron Ore. 5 x 4. Sussex, N. J.
1285 Lepidolite. 6 x 3. Mount Mica, Me.
1286 Quartz. 6 x 3½. Prehnite Mine, Charlestown.
1287 Red Tourmaline in Feldspar. 5 x 3. Mount Mica, Paris, Me.
1288 Graphic Granite. 5 x 4. Streaked Mountain, Me.
1289 Galena. 5 x 6. Missouri.
1290 Slate from the wall of the old Fort Dearborn. 4 x 3.
1291 Quartz. 5 x 3. Paris, Maine.
1292 Tremolite in Dolomite. 4 x 6½. Canaan, Conn.
1293 Crystallized Galena. 4 x 3. Galena, Ill.
1294 Ox-eye Agate. Polished. 3 x 3. Brazil.
1295 Siderite. 3 x 3. Newburyport.
1296 Chloride of Silver. Assays $20 to ton. 2½ x 2. Haskell Lode.
1297 Horn Silver in crystals. 3 x 2½. Rhodehodt Mine.
1298 Sulphuret of Copper. 2 x 2.

1299 Calcite with Copper. 3¼ x 2½. Lake Superior.
1300 Large Stalactite. 10 x 7. Kentucky Cave.
1301 Amphibolite. *Very fine.* 5 x 4. Eagansville, Canada.
1302 Copper Ore. 2 x 2. Union Placer, Ill.
1303 Fibrous Asbestos. 2 x 2. Canada.
1304 Talc. 3 x 3. Nova Scotia.
1305 From Rhode Island Coal Region. 4 x 4.
1306 Silver Ore. 3 x 3. $20 per ton; Champion Mine.
1307 Fragment of the first monument erected to the memory of Wolfe and Montcalm near Quebec. 3 x 1½.
1308 Smoky, or Amethystine Quartz. 3 x 2. White Mountains, N. H.
1309 Plumose Mica. 3½ x 2½. Conn.
1310 Chloride and Sulphide of Silver. 4½ x 3. Idaho.
1311 Chalcedony. 3½ x 2½. Mercer Co., Ky.
1312 Small Crystals of Garnet in grey Mica Slate. 4 x 2. Surry, Cheshire Co., N. H.
1313 Native Copper. 4 x 2½. Lake Superior Mine.
1314 Black Tourmaline Crystals on Quartz. 3 x 2. Paris, Maine.
1315 Mosaic. 3½ x 2½. Smyrna, Asia.
1316 Mortar from the Tomb of Washington. 2 x 1½. Mount Vernon.
1317 Micaceous Granite. 2½ x 1½. Top of Mount Washington, N. H.
1318 Anthracite Coal. 4 x 4. Rhode Island Mine, Portsmouth.
1319 Ferruginous Quartz. 3 x 3. Ripton, Vt.
1320 Selenite, Gypsum, and Sulphuret of Lead. 5 x 4. Nova Scotia.
1321 Gypsum. 4 x 3. Nova Scotia.
1322 Fragment of monument at Wyoming, Pa. 3 x 2.
1323 Chlorophylite. 5 x 4. Haddam, Conn.
1324 Prehnite. 2½ x 2. Charlestown, Mass.
1325 Micaceous Quartz, furnace stone. 5 x 3½. Woonsocket, R. I.
1326 Fragment from Lady Fenwick's monument. 3 x 1½. Saybrook, Conn. Said to be the earliest monument existing erected to a woman in New England.
1327 Grauwacke. 6½ x 3½. E. Greenwich, R. I.

1328 Horn Silver in Cubes. 3 x 2. Eberhardt Mine, White Pine.

1329 Siliceous Carbonate of Lime, inlaminted with Green Talc. 2 x 2. Middlebury, Vt.

1330 Sand from Japan.

1331 Garnets in Slate. 4 x 2. Rhode Island.

1332 Quartz in Crystals. 3 x 2. Saratoga Co., N. Y.

1333 Stalagmite. 9 x 5. Kentucky Cave.

1334 Spathic Iron. 2½ x 1½. Lake Superior.

1335 Mineral Salt. 2½ x 2. Poland.

1336 Milky Quartz. 4 x 3. Streaked Mt. Maine.

1337 Iron Ore. 4 x 3. Montgomery, Md.

1338 Amygdaloid. 2½ x 2. Oxford, Me.

1339 Galena. 2 x 2. Illinois.

1340 Chalcedony on petrified coal. 3 x 3. Tampa Bay, Florida.

1341 Feldspar. 5 x 3½. Mt. Mica, Me.

1342 Calcareous Tufa. 3½ x 4. Middlebury, Vt.

1343 Red Jasper. 4 x 2. Oxford, Me.

1344 Siliceous Conglomerate. 4½ x 2. Near Sallersburg, Maryland.

1345 Calcareous Tufa. 7 x 4. Florida.

1346 Epidote. 2 x 3. Warwick, N. Y.

1347 Calcareous Stone. 2½ x 3. Sweeper's Cave, Niagara.

1348 Galena. 1½ x 1½. Illinois.

1349 Fragment of the ancient house Guilford, Conn; said to be the oldest house now standing in the United States. An ancient garrison-house, built of stone brought on hand-barrows from a distance of several miles. 3 x 2.

1350 Labradine Feldspar. 3 x 2. From Dr. Herron, Amity, N. Y. Dr. H. was the discoverer of the immense deposites in Orange Co., N. Y., for which that locality is so celebrated.

1351 Red Building Stone. 5 x 4. Dorchester, Mass., on line of the N. Y. & N. E. R.R.

1352 Prehnite and Aragonite. 4 x 1. Charlestown.

1353 Blue Tourmaline. 6 x 4½. Mount Mica, Me. A most rare mineral.

1354 Mica. 4½ x 3. Mt. Mica, Paris, Me.

1355 Crystals of Zircon in Scapolite. 3 x 2. Eaganville, N. Y.

1356 Epidote. 2 x 2. Haddam, Conn.
1357 Green Beryl. 2 x 3. Newburyport, Mass.
1358 Geode of Carbonate of Lime. 4 x 3½.
1359 Mica in rude Crystals. 1 x 1½. Mt. Mica.
1360 Prehnite. 1½ x 1. Charlestown, Mass.
1362 Radiated Crystals of Quartz. 3 x 1. Waltham. Mass.
1363 White Marble. 2½ x 2. Rutland, Vt.
1364 Pink Feldspar. 3 x 2. Haddam, Conn.
1365 Greenstone Trap; from a dike in front of the church. 3 x 3. Oxford, Me.
1366 Prehnite. 2 x 1. Charlestown, Mass.
1368 Crystal of Zircon and Spinelle. 3 x 2. Warwick. N. Y.
1369 Quartz Crystals. 4 x 2. Saratoga Co., N. Y.
1370 Flint. 2½ x 1½. Glenn's Falls, N. Y.
1371 Galena. 2½ x 2. Illinois.
1372 Grauwacke. 5 x 3½. E. Greenwich, R. I.
1373 Mica Slate. 4 x 3. St. Johnsbury, Vt.
1374 Fossil impressions of the bark of the Aphylum. 5 x 3. Carbondale, Pa.
1375 Conglomerate. 4½ x 3. Shore of Lake Ontario.
1376 Serpentine; resembling Verd-antique. 6½ x 3. Roxbury, Vt.
1377 Petrifaction from Sorcerer's Cave. 6 x 5. Niagara, N. Y.
1378 Quartz, Mica and Green Tourmaline, the latter *very rare*. 5½ x 4. Mt. Mica, Paris, Me.
1379 Nodule, argillaceous Oxide of Iron. 2½ x 3. Bladensburg, Md.
1380 Selenite and Gypsum. 3½ x 2. Nova Scotia.
1381 Milky Quartz. 5 x 3. Streaked Mt., Me.
1382 Green Mica Slate with Iron Pyrites. 6 x 5. Brunswick, Maine.
1383 Calcareous Tufa. 7 x 7. Sorcerer's Cave, Niagara, N. Y.
1384 Selenite. 7 x 2½.
1385 Crystal of Selenite. 5 x 2½. Manlius, N. Y.
1386 Masonite. *Fine* specimen. 4 x 4. Natick, R. I. This rare mineral has never been met with in any other locality and the supply is now exhausted.
1387 Garnets and Talc. 3 x 3. Haddam, Conn.

1388 Blue Carbonate of Copper, Azurite and Malachite. 4 x 1. Round Brook, N. J.
1389 Bardiglio Marble. 4½ x 3. Italy. One side polished.
1390 Cinnamon Stone Garnet. 3 x 2½. Haddam, Conn.
1391 Fragment of Indian Pottery. 2½ x 2. Thompson's Pond, Me.
1392 Black Spindle. 5½ x 3. Amity, N. Y.
1393 Wolfram in irregular crystals in Quartz (Pseudomorph of Tungsten). 5 x 5. Monroe, Conn.
1394 Hornblende. 4 x 3. Warwick, N. Y.
1395 Rose Quartz. 3 x 2. Fine specimen. Mt. Mica, Paris, Me.
1396 Green Mica Slate, with iron pyrites. 3 x 2. Prof. Cleaveland, Brunswick, Me.
1397 Garnet in large twenty-four sided crystal. Diameter 1½ in. Oxford, Conn.
1398 Smoky Quartz with Beryl. 3½ x 3. Bowdoinham, Me.
1399 Epidote in Quartz. 5 x 2½. Haddam, Conn.
1400 Green Asbestus. 3½ x 2. Copper Mine, Cumberland, Md.
1401 Petrifaction. 7 x 4. Sorcerer's Cave, Niagara.
1402 Quartz with Scapolite and minute Crystals of Zircon. 4 x 3. Warwick, N. Y.
1403 Geode of Rose-colored Spar. 5 x 3. Mammoth Cave, Ky.
1404 Wingstone. 4 x 2½. Antigua, West Indies.
1405 Magnetic Oxide of Iron. 2½ x 3. Warwick, R. I.
1406 Radiated Gypsum and Selenite. 4½ x 4½. Waltham, Mass.
1407 Calcareous Spar. 4 x 4. Moulins, N. Y.
1408 Selenite and Calcareous Spar. 5 x 3. Nova Scotia.
1409 Black Spinelle with Garnet. 3 x 2. Amity, N. Y.
1410 Prehnite. 5 x 3. Charlestown, Mass.
1411 Quartz in Crystals. 3 x 2. Paris, Me.
1412 Calcareous Tufa. 2½ x 2. Niagara, N. Y.
1413 Quartz. 4 x 2½. Mt. Mica, Paris, Me.
1414 Augite, Sphene and Albite. 3 x 4. Rogers' Rock, N. Y.
1415 Iron Ore. 3 x 3. Warwick Mine, N. Y.
1416 Chlorophene. 4 x 3. Munroe, Conn.
1417 Petrifaction. 3 x 5. Cave of the Winds, Niagara.

1418 Brown Hematite. 2½ x 2½. Ural Mts., Russia.
1419 Fossil Shells. 4 x 5. Catskill Mts., N. Y.
1420 White Quartz. 4½ x 3½. Orange Co., N. Y.
1421 Malachite. 3 x 2. Africa.
1422 Galena and Carbonate of Lime. 3 x 2. Warwick, N. Y.
1423 Fossil Shells from Eastern Maine. 220 pcs.
1424 Concentric Nodules of Argillaceous Oxide of Iron. Bladensburg, Md. 26 pcs.
1425 Stalactites from various caves. Some fine. 69 pcs.
1426 Stalactites of smaller size. From the same source. 100 pcs.
1427 Marine and Freshwater Shells of New England. Great variety. 225 pcs.
1428 Galena from Lubeck lead mine in Maine. Assays 15 oz. silver to hundredweight.
1429 Specimens illustrating Gypsum Formation of Niagara Co., N. Y. Some fine. 96 pcs.
1430 Metallic Ores: copper, iron, lead, etc. Various localities. 15 pcs.
1431 Sulphate of Barytes or Heavy Spar. 4½ x 3. Conn.
1432 Green Beryl. 1 x 1. Royalston, Mass.
1433 Calcareous formation. 5 x 6. Sorcerer's Cave, Niagara.
1434 Crystal of Garnet. Twenty-four sided. 1½ x 1½. Oxford, Conn.
1435 A variety of minerals; different locations. 7 pcs.
1436 Graphic Granite. 2½ x 3½. Paris, Me.
1437 Muscovite. 3 x 4. Paris, Me.
1438 Agate or Striped Jasper. *Fine.* 2 x 2. Maine.
1439 Fragment from the Temple of Jupiter. 2 x 1. Athens, Greece.
1440 Magnesite. *Scarce.* 2½ x 1½. Greece.
1441 Fern Impressions. 9½ x 7. Carbondale Coal Mines, Pa.
1442 Petrified Wood. 3 x 2. California.
1443 Hexagonal Crystal of Green Beryl. 3 x 2. Albany, Maine.
1444 Various minerals, building stones, etc.; different localities. The last and several preceding lots are from the collection of Mr. Ingraham of Boston, sold by Leonard & Co. in 1855. 65 pcs.

1445 Petrifactions, Fossil Shells and Shell Impressions, etc. From the Ingraham collection. A large box of more than 100 specimens.

1446 Selenite. Portion of a large Crystal from the Ingraham Collection. Found in Northern New York. This crystal was originally perhaps the finest known. The laminæ possessed almost the clearness of plate glass, and the mass was nearly the size of a barrel. The sheets that follow are exceedingly fine and transparent. 9 x 5 x 2.

1447 Selenite. A portion of the same Crystal; equally fine. 9 x 6.

1448 Selenite. Another specimen from the same Crystal. 8 x 6½.

1449 Selenite. Still another. 7 x 6.

1450 Selenite. Another portion of the same Crystal. 7 x 4.

1451 Selenite. Another. 6 x 4.

1452 Selenite. Another fine example. 6 x 3.

1453 Selenite. Still another. 6½ x 3.

1454 Crystals of Quartz. N. Y. 20 pcs.

1455 Azurite and Malachite. 3 x 2. Russia.

1456 Fossil Shells, etc. 4½ x 4.

1457 Crystal of Quartz. 4 x 1½. Hot Springs, Ark.

1458 Tremolite. 2 x 3. Conn.

1459 Green Beryl on Feldspar. 3 x 2. Paris, Me.

1460 Radiated Gypsum. 2½ x 2. Thetford, Can.

1461 Specular Iron Ore. 2½ x 3. Wisconsin.

1462 Rose Quartz. *Extra fine.* 7 x 5. Paris, Me.

1463 Jasper, Obsidian and Quartz. 4 pcs.

1464 Agalmatolite. 3 x 2½. Japan. Much used in China and Japan for artistic carving.

1465 Galena. 3 x 2. Illinois.

1466 Crystals of Quartz. Length 1 to 3 in. Hot Springs, Ark. 6 pcs.

1467 Iron Ore. 3 x 2. Wisconsin.

1468 Mexican Opal. Diameter above an inch. Cost $7.

1469 Another Mexican Opal of the same quality, but has been cracked.

1470 Copper. 2½ x 2. Lake Superior.

1471 Stalactite. *Fine.* 10 x 1½. Kentucky Cave.

1472 Carbonate of Lead. 2 x 2. Phœnixville, Pa.

ARTICLES OF HOUSEHOLD ADORNMENT.

These objects are made from most beautiful minerals of Russia and Arizona. The specimens are numbered as follows, and are referred to in the catalogue by numbers only. Many of the objects comprise the entire selection, and they are mostly of size suitable for cabinet collections.

1. Gold Ore. 2. Silver Ore. 3. Lead Ore. 4. Copper Ore. 5. Iron Pyrites. 6. Peacock Ore. 7. Fluor Spar. 8. Moss Agate. 9. Wood Jasper. 10. Wood Opal. 11. Chalcedony. 12. Agate. 13. Petrified Cottonwood. 14. Petrified Cedarwood. 15. Crystallized Palm wood. 16. Smoky Quartz. 17. Quartz Crystals. 18. Iceland Spar. 19. Pink Satin Spar. 20. Amazon Stone. On all the objects the stones are firmly fixed and not likely to break off.

1473 Pin-cushion covered with crimson Satin. On this the following minerals will be found. 1, 2, 4, 5, 8, 9, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20. 4½ x 3.

1474 Cross Calvary. 1, 5, 8, 11, 12, 16, and others. 7½ x 4.

1475 Horseshoe Paper-weight, lined with crimson satin. The usual assortment of minerals. 5 x 4½.

1476 Anchor. 20 varieties of minerals. 8 x 6½.

1477 Horseshoe Photograph Frame, with mirror and silver-plated trimmings. Very fine assortment of minerals. 6 x 7.

1478 Small Trunk or Jewel Case. Several minerals not enumerated in the foregoing list. 4½ x 5.

1479 Cut-glass Inkstand and Thermometer. The minerals on this are exceptionally fine and numerous. 8½ x 4½.

1480 Harp. *Very fine.* 8 x 4½.

1481 Inkstand. Cut-glass and ornamented. 4 x 4.

1482 Pincushion. The cushion on top formed of the bark of the Sequoia tree. Fine specimens of malachite, wood jasper, agate, etc. 3 x 5.

1483 Cross. 7½ x 4.

1484 Anchor. Finely ornamented. 9 x 7.

1485 Horseshoe Paper-weight. Lined and ornamented with crimson satin. Minerals extra fine. 6½ x 5½.

1486 Large Photograph Frame, with glass and silver-plated trimmings. Minerals of extra quality and number. 9 x 7½.

1487 Inkstand: cut glass, ornamented and silver-plated. Minerals superior selection. 3½ x 4.

1488 Horseshoe Paper-weight lined with red satin. Minerals of extra quality. 6½ x 5½

1489 Jewel Case or box of large size and profusely ornamented. 6½ x 7.

1490 Thermometer and Pincushion. Satin-lined, with Sequoia cushion. *Fine.* 6 x 5½

1491 Harp. Minerals finer than usual. 7½ x 6.

1492 Photograph Frame. Silver-plated trimmings; minerals of extra size and quality. 9½ x 7½.

1493 Horseshoe Paper-weight. Satin-lined. 6 x 5.

1494 Sequoia Pincushion. *Fine.* 5 x 4.

1495 Cross. Extra assortment of minerals. 6½ x 5½.

1496 Thermometer. Massive; extra assortment of minerals. 7 x 5

1497 Square Photograph Frame. Silver-plated trimmings, minerals extra in quality and number. 9 x 7.

1498 Horseshoe Paper-weight, with silver-plated trimmings. Several extra minerals. *Fine.* 8 x 6½.

1499 Satin-covered Pincushion. 3 x 5.

1500 Horseshoe Paper-weight. Gilt and red satin. 5 x 4.

1501 Harp. Minerals of large size. 7 x 5.

1502 Inkstand. Cut-glass and silver-plated. 8½ x 3½.

1503 Sequoia Pincushion. 4½ x 3.

1504 Selenite Jewel-box. Massive and profusely ornamented. 6 x 7.

1505 Large Horseshoe Photograph Frame, with silver-plated trimmings. 6½ x 7½.

1506 Horseshoe Paper-weight, satin-lined. 6½ x 5½.

1507 Cross. 8 x 4.

1508 Satin-trimmed Pincushion. 5 x 4.

1509 Thermometer and Sequoia Pincushion. *Fine.* 6 x 5½.

1510 Anchor. Minerals of extra size. 8½ x 7

1511 Horseshoe Photograph Frame. Silver-plated trimmings. Large minerals. 7½ x 6.

1512 Square Photograph Case with Portrait of Mary Anderson. Silver-plated trimmings with extra minerals. 9 x 7½

1513 Cross. 8 x 4.

1514 Horseshoe Paper-weight. 20 minerals. 6½ x 5½.

1515 Satin-covered Pincushion. Five minerals. 5 x 3½.

1516 Square Photograph Case. Silver-plated trimmings. Extra quality. 9 x 7½.

1517 Horseshoe Paper-weight, satin-lined and trimmed. 6½ x 5½.

1518 Thermometer, with satin lining and Sequoia Cushion. 6 x 4.

1519 Horseshoe Paper-weight, satin-lined. 5 x 4.

1520 Satin-lined Pincushion. 4½ x 3.

1521 Horseshoe Paper-weight, satin-lined. 7½ x 5½.

1522 Large Square Photograph Frame. Silver-plated trimmings. 9 x 7.

1523 Inkstand. Bottle with silver-plated trimmings, cut and ornamented. 4 x 3.

1524 Horseshoe Paper-weight, silk-lined. 6½ x 5½.

1525 Horseshoe Paper-weight, satin-lined. Fine minerals. 6½ x 5.

1526 Sequoia Pincushion. Good lot of minerals. 5 x 4.

1527 Horseshoe Paper-weight, satin-lined. 6½ x 5½.

1528 Anchor. Minerals, a fine lot. 8 x 7½.

1529 Horseshoe Paper-weight, satin-lined. 6 x 5.

1530 Horseshoe Paper-weight, satin-lined. 5 x 4.

1531 Horseshoe Paper-weight, satin-lined. 6 x 5½.

1532 Pink Satin Pincushion. Fine minerals. 5 x 3½.

1533 Horseshoe Paper-weight, satin-lined, with fine minerals. 6½ x 5½.

1534 Horseshoe Photograph Frame. Silver-plated trimmings, large minerals and velvet backing. 6½ x 7.

1535 Horseshoe Paper-weight, satin-lined. 6½ x 5.

1536 Horseshoe Paper-weight, satin-trimmed. 6 x 5½.

1537 Horseshoe Paper-weight, satin-lined. 5 x 5.

1538 Cross, heavily trimmed. 7 x 3½.

1539 Harp. 7½ x 5.

1540 Inkstand and Thermometer. Cut glass, painted and silver-plated. Fine minerals. 9 x 5.

1541 Cross. 7½ x 4.

1541*a* Horseshoe Paper-weight, satin-lined. 6 x 5.

1542 Anchor, with large minerals. 8 x 7.

1543 Cross. Extra minerals, heavily covered. 7½ x 4½.

1544 Box or Jewel Case of Brownish-red Jasper. Double lock, hinges and trimmings, fine gilt mirror top; satin-lined. 4⅜ x 2⅞.

1545 Blotter of Russian Malachite. Knob, brass, fire-gilt. *Very handsome.* 4½ x 2½.

1546 Blotter of Labradorite. Handle, brass, fire-gilt. *Very fine.* 4 x 2½.

1547 Pen-rack of Russian Malachite. *Extremely fine and rare.* 7½ x 4½.

1548 Jasper Dish or Card Receiver on Pedestal. 5½ x 4.

1549 Jasper Dish of light, delicate colors. 5 x 3½.

1550 Jasper Dish of dark green, nearly black. *Very fine.* 5½ x 3½.

1551 Jasper Book Paper-weight, highly polished. *Very fine.* 2½ x 1½.

1552 Jasper Book Paper-weight, highly polished. *Extra fine.* 3½ x 2½.

MINERALS.

1553 Chloride of Silver. 4½ x 2½. Boss Mine, Globe dist. A. T. Assays $20 to the ton.

1554 Calcite and Malachite. 3½ x 2. Clifton, A. T.

1555 Cuprite. 4 x 2½. Cochise Co., A. T.

1556 Fibrous Malachite. *Fine.* 5½ x 4. Clifton, A. T.

1557 Cuprite and Malachite. 4½ x 4. Bisbee, A. T.

1558 Cuprite. 2½ x 2½. Bisbee, A. T.

1559 Green Beryl in Crystals. Various formations to Matrix. 7 pcs.

1560 Copper Ores. New Jersey. 10 pcs.

1561 Azurite and Malachite. 2 x 1½. Bisbee, A. T.

1562 Striped Jasper. 1½ x 1½. Oxford, Me.

1563 Crystal of Topaz. 1½ x 1. Haddam, Conn.

The following specimens were all specially cut to order for this sale, and they are all of surpassing beauty. Such sections are sold by the owners of the quarry at $10 apiece, at which they find a ready sale.

1564 Jasperized Wood. A section cut from a log, the surface covered with crystallized amethyst. Both sides finely polished. 6 by 5 in., About 3 in. to thickness.

1565 Jasperized Wood. A section from the same block, partly covered with amethyst. One face polished, the other in the rough. 7 by 6 in., 3 in. thick.

1566 Jasperized Wood, shows the bark distinctly. One side handsomely polished, the other rough. 7 by 8 in., 4 in. thick.

1567 Similar section, shows the wood nearly surrounding the specimen. 7½ by 8 in., 2½ in. thick. One side polished, the other side natural.

1568 Jasperized Wood, like the second described. Equally fine, with amethyst coating. Polished on both sides. 7 by 6½ in., 2 in. thick.

1569 Jasperized Wood, like the second described. Equally fine, partially coated with amethyst crystals. One face polished, the other in the rough. 6 by 7 in. 3 in. thick.

1570 Jasperized Wood. A section, with one face polished, the other in the rough. 5 by 6 in., 2 in. thick.

1571 Jasperized Wood, shows the bark almost surrounding. One side polished, the other in the rough. 6 by 7½ in., 2 in. thick.

1572 Jasperized Wood, beautifully covered with amethyst, a portion of same section as second described. This specimen in two pieces. One side polished, the other covered with crystallized amethyst. The two pieces form a section of about 6 by 7 in., 4 in. thick.

1573 Jasperized Wood. One face polished. 1 by 2 in.

1574 Jasperized Wood. One face polished. 1 x 1½ in.

1575 Jasperized Wood. One face polished. ½ by 1 in.

1576 Jasperized Wood. One face polished. 1 by 2½ in.

1577 Jasperized Wood. One face polished. 1½ by 1½ in.

1578 Agate. 6 x 11. One side polished, the other natural. A magnificent specimen. Said to be the largest ever cut in America. Chalcedony Park, A. T.

1579 Agate. 6 x 11. One polished surface, one unpolished. In size corresponds to the last. Chalcedony Park, A. T.

This Catalogue has unexpectedly extended to such a length, that in order to get through the sale in two days, as seems imperative, the auctioneer, to save delay, will sell many of the less important lots in groups of several specimens in a single lot, thus saving time and facilitating the sale. The lots thus combined will be announced from the rostrum at the time of sale, it being now too late to designate them in the printed catalogue.

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